Panasonic 8

Operating Instructions Manual de instrucciones High Definition Plasma Display Alta definición Pantalla de plasma

Model No. Número de modelo TH-42PF11UK TH-50PF11UK TH-58PF11UK TH-65PF11UK



The illustration shown is an image. Before connecting, operating or adjusting this product, please read these instructions completely.

Please keep this manual for future reference.



La ilustración mostrada es una imagen.

Antes de conectar, utilizar o ajustar este producto, lea completamente este manual de instrucciones; y guárdelo para consultarlo en el futuro en caso de ser necesario.

English

Español



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING: To reduce the risk of electric shock, do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.



The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

WARNING: To prevent damage which may result in fire or shock hazard, do not expose this apparatus to rain or moisture.

Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)

WARNING: 1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

2) Do not remove the grounding pin on the power plug. This apparatus is equipped with a three pin grounding-type power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the grounding plug.

This video monitor is designed to display television content from a separate TV tuner. Full-power analog TV broadcasting in the United States will end (as required by law) on February 17, 2009, after which full-power TV broadcasts will be digital only. If this device is used after that date to record or display programming from a product with a TV tuner that relies on a TV antenna, that product would need to contain a digital tuner, or a TV Converter would be necessary to tune the digital signal received with a TV antenna. Analog TVs should continue to work as before for other purposes (e.g., for watching low-power TV stations still broadcasting in analog, watching pre-recorded movies, or playing video games). When a Converter is used with an older television receiver or directly with this product, a signal splitter might be necessary to continue to receive low-power analog broadcasts via an antenna. For more information, please see www.DTV.gov or 1-888-CALL-FCC. For information on the TV Converter program, and on government coupons that may be used toward the purchase of one, see www.dtv2009.gov, or call the NTIA at 1-888-DTV-2009. Please check with your cable or satellite service provider if you have questions about your cable or satellite set-top box.

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments / accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new Plasma Display.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt as well, and record the model number and serial number of your set in the space provided on the rear cover of these instructions.

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FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

This device complies with Part15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION:

To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.

FCC Declaration of Conformity

Model No. TH-42PF11UK, TH-50PF11UK, TH-58PF11UK, TH-65PF11UK

Responsible Party: Panasonic Corporation of North America

One Panasonic Way 1F-10, Secaucus, NJ 07094

Contact Source: Panasonic Professional Display Company

Panasonic Plasma Concierge 1-800-973-4390

CANADIAN NOTICE:

This Class B digital apparatus complies with Canadian ICES-003.

Note:

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

Trademark Credits

- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, USA.
- SVGA, XGA, SXGA and UXGA are registered trademarks of the Video Electronics Standard Association.
 Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Safety Precautions

M

CAUTION

This Plasma Display is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

(All of the following accessories are manufactured by Panasonic Corporation.)

TY-TP65P10S (for TH-65PF11UK)

• Touch Pen.....TY-TPEN6 (for TH-50PF11UK)

 Anti Glare Filter.......TY-AR42P9W (for TH-42PF11UK), TY-AR50P9W (for TH-50PF11UK), TY-AR58P10W (for TH-58PF11UK), TY-AR65P9W (for TH-65PF11UK)

Always be sure to ask a qualified technician to carry out set-up.

Small parts can present choking hazard if accidentally swallowed. Keep small parts away from young children. Discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by young children, creating the potential risk of suffocation.

■ When using the Plasma Display

Do not bring your hands, face or objects close to the ventilation holes of the Plasma Display.

 Top of the Plasma Display is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries can happen if any body parts are brought too close. Placing any object near the top of the display could also result in heat damages to the object as well as to the Display if its ventilation holes are blocked.

Be sure to disconnect all cables before moving the Plasma Display.

 Moving the Display with its cables attached might damage the cables which, in turn, can cause fire or electric shock.

Disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.

Electric shocks can result if this is not done.

Clean the power cable regularly to prevent it from becoming dusty.

 Built-up dust on the power cord plug can increase humidity which might damage the insulation and cause fire. Unplug the cord from the wall outlet and clean it with a dry cloth.

This Plasma Display radiates infrared rays, therefore it may affect other infrared communication equipment. Install your infrared sensor in a place away from direct or reflected light from your Plasma Display.

Note:

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

WARNING

■ Setup

Do not place the Plasma Display on sloped or unstable surfaces.

• The Plasma Display may fall off or tip over.

Do not place any objects on top of the Plasma Display.

 If water spills onto the Plasma Display or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma Display, please consult an Authorized Service Center.

Do not cover the ventilation holes.

 Doing so may cause the Plasma Display to overheat, which can cause fire or damage to the Plasma Display.

Transport only in upright position!

 Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.

If using the pedestal (optional accessory), leave a space of 3 $_{15/16}$ " (10 cm) or more at the top, left and right, and 2 $_{3/4}$ " (7 cm) or more at the rear, and also keep the space between the bottom of the display and the floor surface. If using some other setting-up method, follow the manual of it. (If there is no specific indication of installation dimension in the installation manual, leave a space of 3 $_{15/16}$ " (10 cm) or more at the top, bottom, left and right, and 2 $_{3/4}$ " (7 cm) or more at the rear.)

■ AC Power Supply Cord

The Plasma Display is designed to operate on 110 - 127 V AC, 50/60 Hz.

Do not use any power supply cord other than that provided with this unit.

· Doing so may cause fire or electric shocks.

Securely insert the power cord plug as far as it will go.

• If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they should not be used.

Do not handle the power cord plug with wet hands.

Doing so may cause electric shocks.

Do not do anything that might damage the power cable. When disconnecting the power cable, hold the plug, not the cable.

 Do not make any modifications, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damage to the power cable which can cause fire or electric shock. If damage to the cable is suspected, have it repaired at an Authorized Service Center.

If the Plasma Display will not be used for a long period of time, unplug the power cord from the wall outlet.

■ If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Plasma Display, unplug the power cord immediately.

 Continuous use of the Display under these conditions might cause fire or permanent damage to the unit. Have the Display evaluated at an Authorized Service Center. Services to the Display by any unauthorized personnel are strongly discouraged due to its high voltage dangerous nature.

If water or foreign objects get inside the Plasma Display, if the Plasma Display is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.

 A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.

Maintenance

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been soaked in pure water or water in which neutral detergent has been diluted 100 times, and then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects, otherwise the surface may become damaged. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

- If the cabinet is particularly dirty, soak the cloth in water to which a small amount of neutral detergent has been added and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma Display. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

Accessories

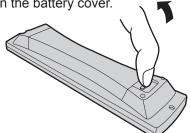
Accessories Supplied

Check that you have the Accessories and items shown Operating Instruction book Remote Control Transmitter EUR7636070R Fanasonic Panasonic AC cord Fixing band × 1 AC cord

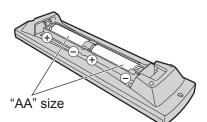
Remote Control Batteries

Requires two AA batteries.

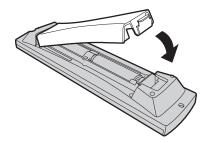
1. Pull and hold the hook, then open the battery cover.



2. Insert batteries - note correct polarity (+ and -).



3. Replace the cover.



Helpful Hint:

For frequent remote control users, replace old batteries with Alkaline batteries for longer life.

🗥 Precaution on battery use

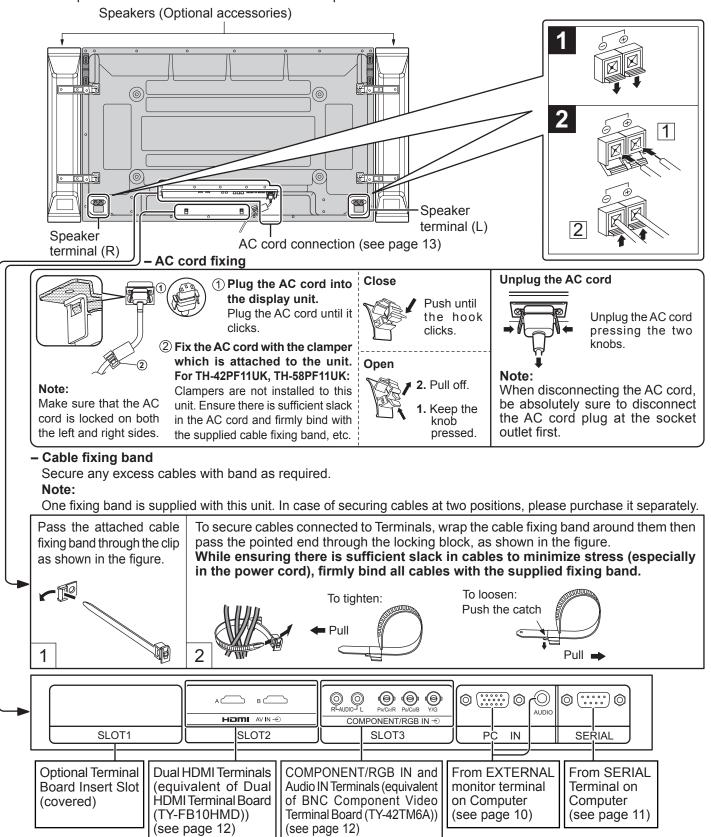
Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter. Disposal of batteries should be in an environment-friendly manner.

Observe the following precautions:

- 1. Batteries should always be replaced as a pair. Always use new batteries when replacing the old set.
- 2. Do not combine a used battery with a new one.
- 3. Do not mix battery types (example: "Zinc Carbon" with "Alkaline").
- 4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
- 5. Battery replacement is necessary when the remote control acts sporadically or stops operating the Plasma Display.
- 6. Do not burn or breakup batteries.
 - Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

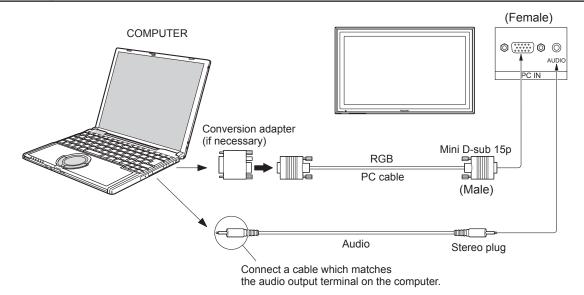
Connections

When connecting the speakers, be sure to use only the optional accessory speakers. Refer to the speaker's Installation Manual for details on speaker installation.



Note: At factory shipment, Terminal boards are installed in SLOT 2 and SLOT 3.

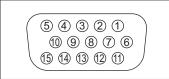
PC Input Terminals connection



Notes:

- Due to space limitations, occasionally you may have trouble connecting Mini D-sub 15P cable with ferrite core to PC input Terminal.
- With regard to the typical PC input signals that are described in the applicable input signals list (see page 51), adjustment values such as for the standard picture positions and sizes have already been stored in this unit. You can add up to eight PC input signal types that are not included in the list.
- Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- The display resolution is a maximum of 1,440 × 1,080 dots when the aspect mode is set to "4:3", and 1,920 × 1,080 dots when the aspect mode is set to "FULL". If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
- The PC input terminals are DDC2B-compatible. If the computer being connected is not DDC2B-compatible, you will need to make setting changes to the computer at the time of connection.
- Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with DOS/V compatible Mini D-sub 15P terminal.
- The computer shown in the illustration is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.
- Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
- Component Input is possible with the pin 1, 2, 3 of the Mini D-sub 15P Connector.
- Change the "COMPONENT/RGB-IN SELECT" setting in the "SET UP" menu to "COMPONENT" (when COMPONENT signal connection) or "RGB" (when RGB signal connection). (see page 39)

Signal Names for Mini D-sub 15P Connector

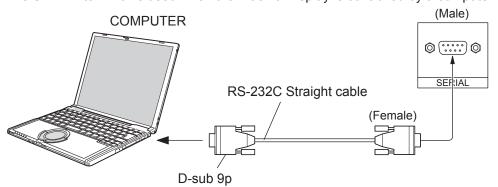


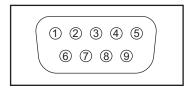
Pin Layout for PC Input Terminal

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	R (P _R /C _R)	6	GND (Ground)	11)	NC (not connected)
2	G (Y)	7	GND (Ground)	12	SDA
3	B (P _B /C _B)	8	GND (Ground)	13	HD/SYNC
4	NC (not connected)	9	+5 V DC	14)	VD
(5)	GND (Ground)	10	GND (Ground)	15	SCL

SERIAL Terminals connection

The SERIAL terminal is used when the Plasma Display is controlled by a computer.





Pin layout for SERIAL Terminal

Notes:

- Use the RS-232C straight cable to connect the computer to the Plasma Display.
- · The computer shown is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.

The SERIAL terminal conforms to the RS-232C interface specification, so that the Plasma Display can be controlled by a computer which is connected to this terminal.

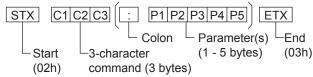
The computer will require software which allows the sending and receiving of control data which satisfies the conditions given below. Use a computer application such as programming language software. Refer to the documentation for the computer application for details.

Communication parameters

Signal level	RS-232C compliant
Synchronization method	Asynchronous
Baud rate	9600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
Flow control	-

Basic format for control data

The transmission of control data from the computer starts with a STX signal, followed by the command, the parameters, and lastly an ETX signal in that order. If there are no parameters, then the parameter signal does not need to be sent.



Notes:

- If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
- If an incorrect command is sent by mistake, this unit will send an "ER401" command back to the computer.
- SL1A, SL1B, SL2A and SL2B of Command IMS are available only when a dual input terminal board is attached.

Signal names for D-sub 9P connector

Pin No.	Details
2	RXD
3	TXD
(5)	GND
4.6	Non use
⑦ ⑧	(Shorted in this set)
1.9	NC

These signal names are those of computer specifications.

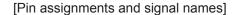
Command

Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	**	Volume 00 - 63
AMT	0	Audio MUTE OFF
	1	Audio MUTE ON
IMS	None SL1 SL2 SL3 PC1 SL1A SL1B SL2A SL2B	Input select (toggle) Slot1 input Slot2 input Slot3 input PC input Slot1 input (INPUT1A) Slot1 input (INPUT1B) Slot2 input (INPUT2A) Slot2 input (INPUT2B)
DAM	None ZOOM FULL JUST NORM SELF SJST SNOM SFUL	Screen mode select (toggle) ZOOM FULL JUST 4:3 Panasonic Auto JUST 4:3 H-FILL

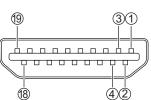
With the power off, this display responds to PON command only.

HDMI connection

This unit has terminal boards equivalent to Dual HDMI Terminal Board (TY-FB10HMD) and BNC Component Video Terminal Board (TY-42TM6A) as standard equipment.

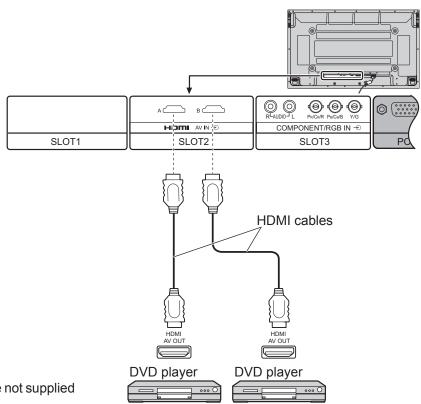


Pin No.	Signal	Pin No.	Signal
1	T.M.D.S Data2+	11)	T.M.D.S Clock Shield
2	T.M.D.S Data2 Shield	12	T.M.D.S Clock-
3	T.M.D.S Data2-	13	CEC
4	T.M.D.S Data1+		Reserved
⑤	T.M.D.S Data1 Shield	4	(N.C. on device)
6	T.M.D.S Data1-	15	SCL
7	T.M.D.S Data0+	16	SDA
8	T.M.D.S Data0 Shield	17	DDC/CEC Ground
9	T.M.D.S Data0-	18	+5V Power
10	T.M.D.S Clock+	19	Hot Plug Detect

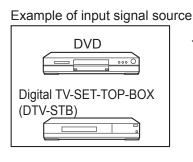


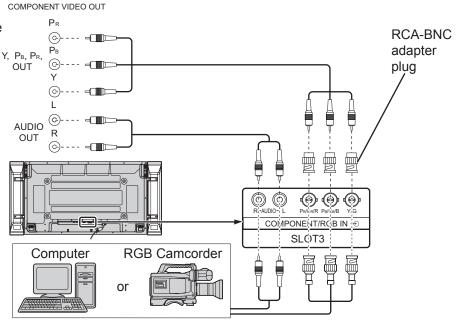


Additional equipment and HDMI cables shown are not supplied with this set.



COMPONENT / RGB connection





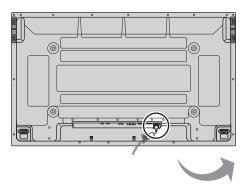
Notes:

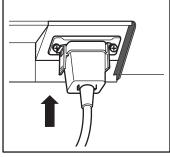
- Change the "COMPONENT/RGB-IN SELECT" setting in the "SET UP" menu to "COMPONENT" (when COMPONENT signal connection) or "RGB" (when RGB signal connection). (see page 39)
- · Additional equipment, cables and adapter plugs shown are not supplied with this set.
- SYNC ON G signal is needed. (see page 43)

Power ON / OFF

Connecting the AC cord plug to the Plasma Display.

Fix the AC cord plug securely to the Plasma Display with the clamper. (see page 9)





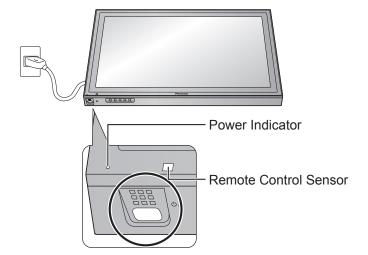
Connecting the plug to the Wall Outlet.

Note:

When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.

Press the Power switch on the Plasma Display to turn the set on: Power-On.

Power Indicator: Green





Press the OFF button on the remote control to turn the Plasma Display off.



ON

Press the (N) button on the remote control to turn the Plasma Display on.

Power Indicator: Green

Turn the power to the Plasma Display off by pressing the \circlearrowleft/I switch on the unit, when the Plasma Display is on or in standby mode.

Note:

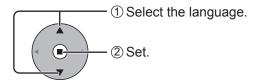
During operation of the power management function, the power indicator turns orange in the power off state.



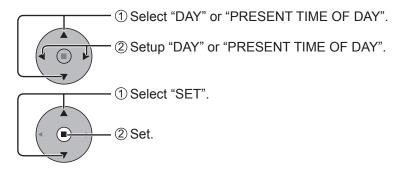
When first switching on the unit

Following screen will be displayed when the unit is turned on for the first time. Select the items with the remote control. Unit buttons are invalid.

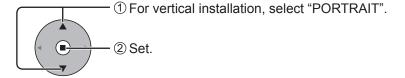
OSD LANGUAGE



PRESENT TIME SETUP



DISPLAY ORIENTATION









PRESENT TIME OF DAY 99:99



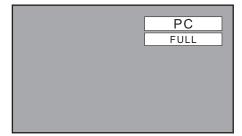
PORTRAIT

Notes:

- Once the items are set, the screens won't be displayed when switching on the unit next time.
- After the setting, the items can be changed in the following menus.
 OSD LANGUAGE (see page 15)
 PRESENT TIME SETUP (see page 29)

DISPLAY ORIENTATION (see page 33)

From the second time on, the below screen is displayed for a while (setting condition is an example).



Initial selections

Selecting the input signal

Select the input signals to be connected by installing the optional Terminal Boards.

Press to select the input signal to be played back from the equipment which has been connected to the Plasma Display.

Input signals will change as follows:

INPUT1—> INPUT2A—> INPUT2B—> INPUT3—> PC—

SLOT2 is for dual input so that you can select INPUT2A or INPUT2B for INPUT2.

INPUT2A: HDMI signal terminal in SLOT2 INPUT2B: HDMI signal terminal in SLOT2

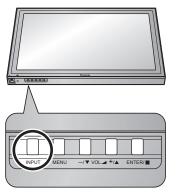
Press the INPUT "1", "2", "3" or "PC" input mode selection button to select the INPUT mode.

Press 2 to switch the input mode between INPUT2A and INPUT2B.

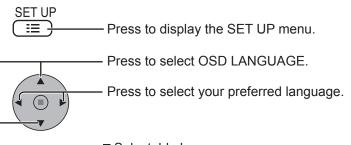
Notes:

- Selecting is also possible by pressing the INPUT button on the unit.
- Input terminal will not be selected if the terminal board is not installed into the SLOT.
- Select to match the signals from the source connected to the component/RGB input terminals. (see page 39)
- In two-screen display, the same input mode cannot be selected for the main picture and sub picture.
- Image retention (image lag) may occur on the plasma display panel when a still picture is kept on the panel for an extended period. The function that darkens the screen slightly is activated to prevent image retention (see page 49), but this function is not the perfect solution to image retention.

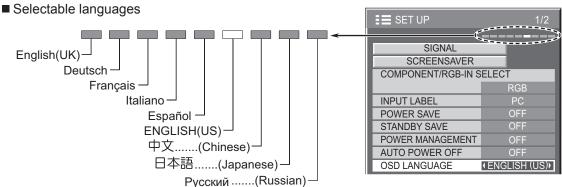




Selecting the On-Screen Menu Language

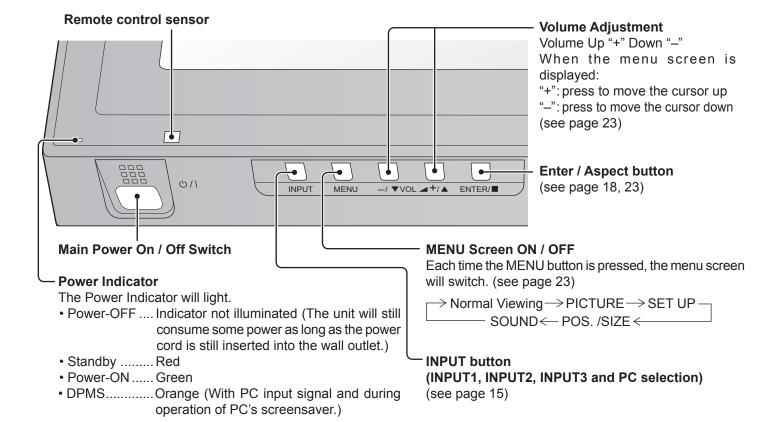


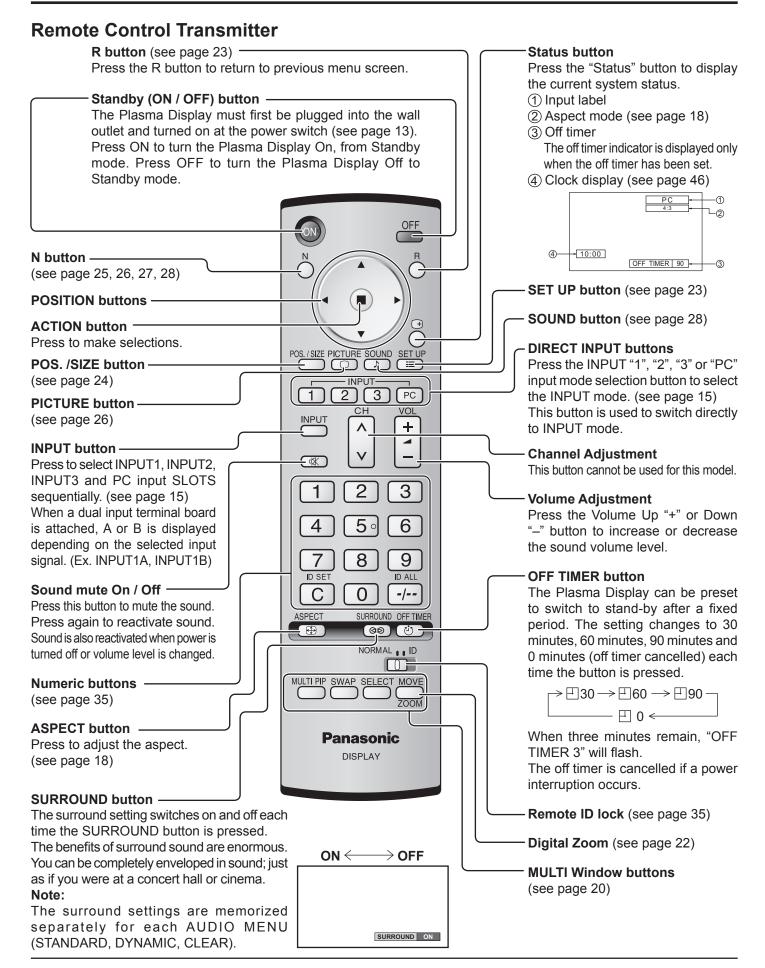




Basic Controls

Main Unit





ASPECT Controls

The Plasma Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.

Note:

Be aware that if you put the display in a public place for commercial purposes or a public showing and then use the aspect mode select function to shrink or expand the picture, you may be violating the copyright under copyright law. It is prohibited to show or alter the copyrighted materials of other people for commercial purposes without the prior permission of the copyright holder.



 \bigoplus

Press repeatedly to move through the aspect options:

For details about the aspect mode, please see "List of Aspect Modes" (page 50).

For VIDEO (S VIDEO) signal input:

ightarrow 4:3 ightarrow ZOOM ightarrow Panasonic AUTO ightarrow FULL ightarrow JUST $_-$

[from the unit]



Note:

When selecting an input slot that attaches BNC Dual Video Terminal Board (TY-FB9BD), Panasonic AUTO cannot be selected.

The aspect mode changes each time the ENTER button is pressed.

For PC signal input:

For SD signal input (525 (480) / 60i • 60p, 625 (575) / 50i • 50p):

>4:3 \longrightarrow ZOOM \longrightarrow FULL -



For HD signal input [1125 (1080) / 60i • 50i • 60p • 50p • 24p • 25p • 30p • 24sF, 1250 (1080) / 50i, 750 (720) / 60p • 50p]:

ightarrow 4:3 ightarrow H-FILL ightarrow ZOOM ightarrow FULL ightarrow JUST -

[During MULTI PIP Operations]

• Picture and Picture, Picture in Picture :

Others

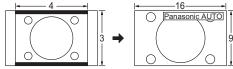
: Aspect switching is not possible.

Notes:

- Panasonic AUTO can be selected only during Video signal input.
- The aspect mode is memorized separately for each input terminal.
- Do not allow the picture to be displayed in 4:3 mode for an extended period, as this can cause a permanent image retention to remain on the Plasma Display Panel.

Panasonic AUTO

The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size.



For letter box image

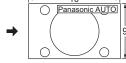
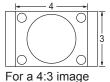


Image is expanded



Changes in accordance with → the Panasonic AUTO mode setting (see page 41).

Notes:

 Panasonic AUTO mode is designed to automatically adjust the aspect ratio to handle a mix of 16:9 and 4:3 program material. Certain 4:3 program material, such as stock market data screens, may occasionally cause the image size to change unexpectedly. When viewing such programs, it is recommended that the ASPECT be set to 4:3.

1 2 3 PC

2 [3] 5 6

8 9

0 -/--

(X)

• If adjusting the PICTURE V-POS/V-SIZE in Panasonic AUTO with FULL mode, the adjustment is not memorized. When exiting the mode, the screen will return to a former adjustment.

All Aspect mode

Set "All Aspect" to "On" in Options menu to enable the extended aspect mode (page 46). When All Aspect mode, the aspect mode of pictures is switched as follows. For details about the aspect mode, please see "List of Aspect Modes" (page 50).

For VIDEO (S VIDEO) signal input:

$$ightarrow$$
 4:3 $ightarrow$ Zoom2 $ightarrow$ Zoom3 $ightarrow$ Panasonic Auto $ightarrow$ 16:9 $ightarrow$ 14:9 $ightarrow$ Just $ightarrow$

Notes:

- When selecting an input slot that attaches BNC Dual Video Terminal Board (TY-FB9BD), Panasonic Auto cannot be selected.
- In All Aspect mode, "Panasonic AUTO" is displayed as "Panasonic Auto".

For PC signal input:

$$\rightarrow$$
 4:3 \rightarrow Zoom \rightarrow 16:9 \neg

For SD signal input (525 (480) / 60i • 60p, 625 (575) / 50i • 50p):

$$\rightarrow$$
 4:3 \rightarrow Zoom1 \rightarrow Zoom2 \rightarrow Zoom3 \rightarrow 16:9 \rightarrow 14:9 \rightarrow Just -

For HD signal input [1125 (1080) / 60i • 50i • 60p • 50p • 24p • 25p • 30p • 24sF, 1250 (1080) / 50i, 750 (720) / 60p • 50p]: \Rightarrow 4:3 Full \rightarrow Zoom1 \rightarrow Zoom2 \rightarrow Zoom3 \rightarrow 16:9 \rightarrow 14:9 \rightarrow Just1 \rightarrow Just2 \rightarrow 4:3 (1) \rightarrow 4:3 (2) \rightarrow

MULTI PIP

You can display two pictures, such as a video image and computer image, in a two-screen display. (Use the remote control for this operation. It cannot be performed with the buttons on the main unit.)

MULTI PIP SETUP

Set the functions and mode for two-screen display in "MULTI PIP SETUP" in the SET UP menu. (see page 36)



Selecting the Display Mode

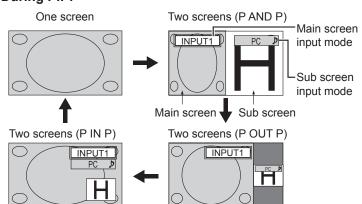
MULTI PIP

Each time this button is pressed, the screen changes.

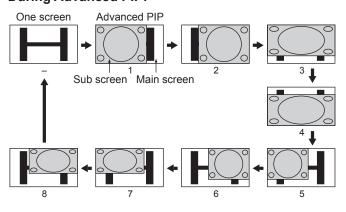
Note:

The screen changes in the same way when "DISPLAY MODE" in "MULTI PIP SETUP" is changed. (see page 36)

During PIP:



During Advanced PIP:



Note:

ASPECT and MOVE button operations are not available during advanced PIP.

During Blend PIP (Composite Screen Function):

A composite picture is displayed with the sub screen positioned over the main screen. For example, text data such as a computer image can be displayed as a caption over a movie or still image.



Transparent Function and Insertion Function

Two functions are available for blend PIP: the transparent function and the insertion function. Set these functions with "TRANSPARENCY" or "INSERT" in "MULTI PIP SETUP". (see page 36)

Transparent Function

Data such as text are displayed transparently on the background image.



Insertion Function

The sub screen image is divided into transparent and non-transparent areas, and only the non-transparent areas are inserted and displayed on the background image.

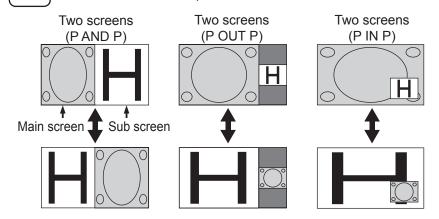


Note:

Be aware that if you put the display in a public place for commercial purposes or a public showing and then use the blend PIP function to make a composite screen display, you may be violating the copyright under copyright law. It is prohibited to show or alter the copyrighted materials of other people for commercial purposes without the prior permission of the copyright holder.

Swapping Screens

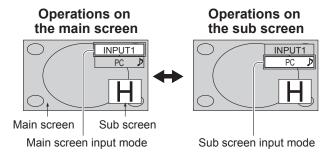
SWAP Each time this button is pressed, the main screen and sub screen are swapped.



Selecting the Target Screen for Operations

SELECT

Each time this button is pressed, the target screen for operations changes.



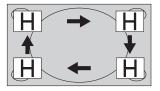
Notes:

- When operations are performed for the sub screen, the sub screen audio is played.
- If no operations are performed, the operation target returns to the main screen after about 5 seconds*. You can also return to main screen operations by operating the remote control buttons (except for).
 - * It takes more than 5 seconds if a slot mounted with a Dual HDMI Terminal Board (TY-FB10HMD) is selected.

Selecting the Sub Screen Position (During P IN P Display)

MOVE

Each time this button is pressed, the sub screen position changes.



Note:

Some sub screen positions may hide the display of the menu screen.

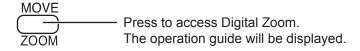
Notes:

- Do not use the two-screen display for a long time. It will cause a permanent image retention to remain on the screen.
- If "INPUT lock" in Options menu is set to other than "Off", MULTI PIP function isn't available.
- Sound output is from the picture which is selected in AUDIO OUT (PIP) (see page 28).
- In two-screen display, the same input mode cannot be selected for the main picture and sub picture.
- The main picture and sub picture are processed by different circuits, resulting in a slight difference in the clarity of the pictures. There may also be a difference in the picture quality of the sub picture depending on the type of signals displayed on the main picture and depending on the two-screen display mode.
- Due to the small dimensions of the sub pictures, these sub pictures cannot be shown in detail.
- · Computer screen picture is displayed in a simplified format, and it may not be possible to discern details on them satisfactorily.
- Following combinations of two analog signals cannot be displayed simultaneously; Component - Component, Component - PC (RGB), PC (RGB) - Component, PC (RGB) - PC (RGB)
- 2k1k signals that are received with the Dual Link HD-SDI Terminal Board (TY-FB11DHD) cannot be displayed in two-screen display.

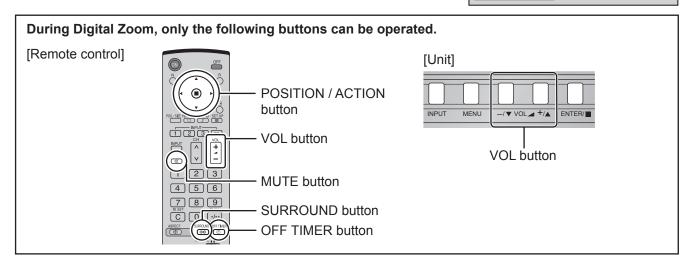
Digital Zoom

This displays an enlargement of the designated part of the displayed image.

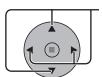
1 Display the operation guide.



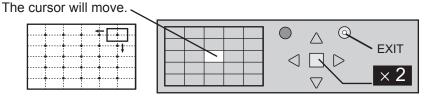




2 Select the area of the image to be enlarged.



Press on the enlargement location to select.



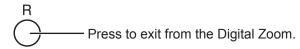
3 Select the magnification required for the enlarged display.



Each time this is pressed, the magnification factor changes. This is shown in the image being displayed.



4 Return to normal display (quit Digital Zoom).



Notes:

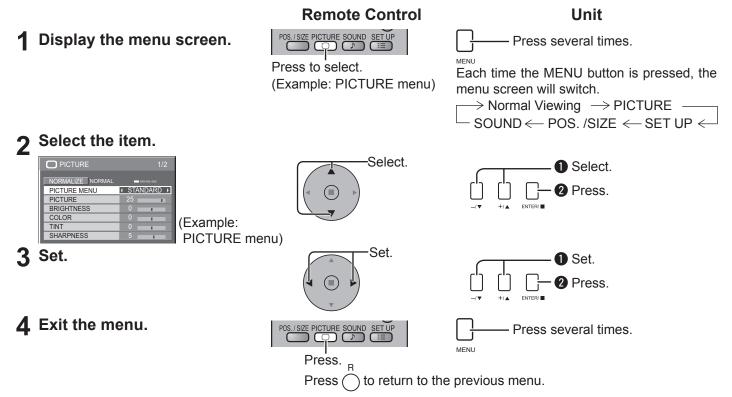
- When power goes OFF (including "Off Timer" operation), Digital Zoom terminates.
- The Digital Zoom function cannot be selected while in the following operation state: "Multi-viewer" (Picture in Picture, Picture out Picture, Picture and Picture) operation. (see page 20) When MULTI DISPLAY SETUP is ON (see page 34).

When PORTRAIT SETUP is ON (see page 37).

When SCREENSAVER (except for NEGATIVE IMAGE) is running. (see page 30)

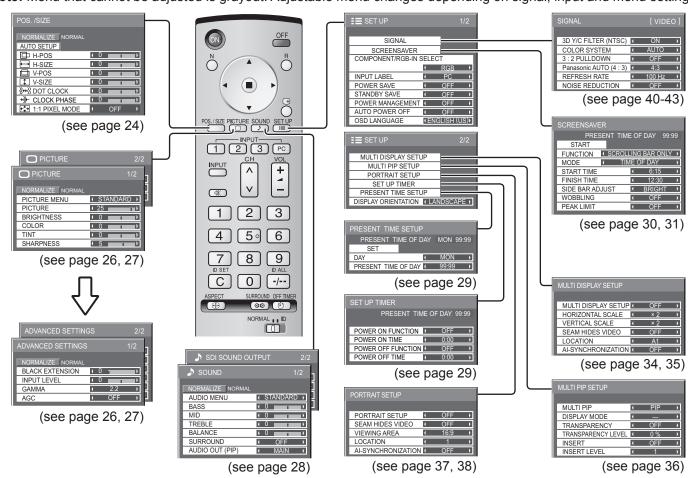
• While Digital Zoom is in operation, "Adjusting POS. /SIZE" cannot be used.

On-Screen Menu Display

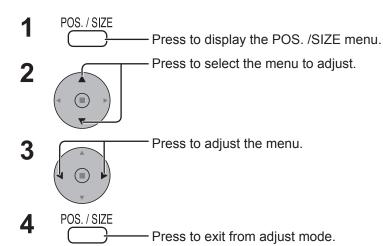


Overview

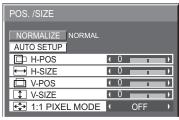
Note: Menu that cannot be adjusted is grayout. Adjustable menu changes depending on signal, input and menu setting.



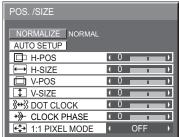
Adjusting POS. /SIZE



During "VIDEO (S VIDEO)", "Digital", "SDI" and "HDMI" input signal.



During "COMPONENT", "RGB' and "PC" input signal.



Notes:

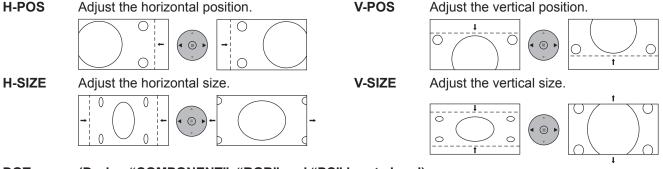
- Unadjustable items are grayed out. Adjustable items differ depending on the input signal and the display mode.
- Adjustment details are memorized separately for different input signal formats. (Adjustments for component signals are memorized for 525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 1125 (1080) / 60i · 50i · 60p · 50p · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i, 750 (720) / 60p · 50p each, and RGB/PC/Digital signals are memorized for each frequency.)
- If a "Cue" or "Rew" signal from a VCR or DVD player is received, the picture position will shift up or down. This picture position movement cannot be controlled by the POS. /SIZE function.
- If adjusting the PICTURE V-POS / V-SIZE in Panasonic AUTO with FULL mode, the adjustment is not memorized. When exiting the mode, the screen will return to a former adjustment.

AUTO SETUP

Automatically adjust H-POS / V-POS / CLOCK PHASE / DOT CLOCK and set H-SIZE / V-SIZE the standard value when RGB signal is input.

Notes:

- If the dot clock frequency is 162 MHz or higher, DOT CLOCK cannot be made.
- If the image is that the edge is hardly figured out or shadowy, that cannot be adjusted automatically. In such case, press AUTO SETUP again after changing the image to the clearer one.
- When DVI-D is input, CLOCK PHASE cannot be adjusted automatically.
- Select NORMALIZE in POS. /SIZE and press the ACTION (■) button when appropriate adjustment cannot be made.



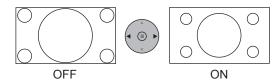
DOT (During "COMPONENT", "RGB" and "PC" input signal)

CLOCK Periodic striped pattern interference (noise) may occur when a striped pattern is displayed. If this happens, adjust so that any such noise is minimized.

(During "COMPONENT", "RGB" and "PC" input signal) CLOCK

PHASE Eliminate the flickering and distortion. 1:1 PIXEL MODE Adjusts the display size when 1125i, 1125p or 1250i signal is input.

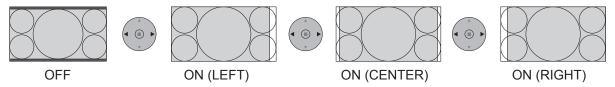
- Select ON when you would like to replay 1920 × 1080 input signal.
- Applicable input signal; 1125 (1080) / 50i · 60i · 24sF · 24p · 25p · 30p · 50p · 60p, 1250 (1080) / 50i
- · Select OFF when flickering is shown around the image.
- H-SIZE, V-SIZE and DOT CLOCK cannot be adjusted when ON is selected.



(2k1k)

1:1 PIXEL MODE When the input signal is a 2k1k signal (2048×1080 / 24p, 2048×1080 / 24sF), the display size is adjusted as follows.

(For 2k1k signals)



Note:

2k1k signals can only be received when the Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed.

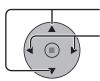
Helpful Hint (\(\sum / \) NORMALIZE Normalization)

While the POS. /SIZE display is active, if either the N button on the remote control is pressed at any time or the ACTION (**I**) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

PICTURE Adjustments

- PICTURE

 Press to display the PICTURE menu.
- Select to adjust each item.

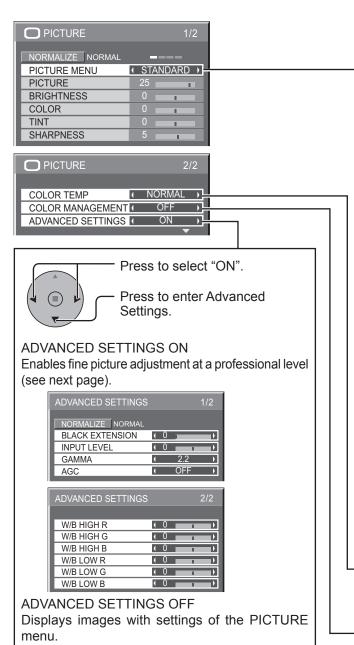


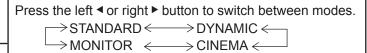
Press to select the menu to adjust.

Select the desired level by looking at the picture behind the menu.

Note:

Menu that cannot be adjusted is grayout. Adjustable menu changes depending on signal, input and menu setting.





STANDARD

For viewing in standard (evening lighting) environments. This menu selects the normal levels of BRIGHTNESS and PICTURE.

DYNAMIC

For viewing in brighter environments.

This menu selects higher than normal levels of BRIGHTNESS and PICTURE.

CINEMA

Ideal for movies.

MONITOR

For use when creating broadcast or movie content. With this picture, even if the overall average picture level (APL) changes, the brightness of areas with the same signal level does not change.

Notes:

 When "MONITOR" is selected in PICTURE MENU, the following menu items cannot be set.

PICTURE menu: PICTURE

SCREENSAVER menu: PEAK LIMIT (see page 31)

SET UP menu: POWER SAVE (see page 32)

MULTI DISPLAY SETUP menu: AI-SYNCHRONIZATION (see page 35) PORTRAIT SETUP menu: AI-SYNCHRONIZATION (see page 38)

 If you would like to change the picture and color of the selected PICTURE menu to something else, adjust using the items in the PICTURE menu. (see next page)

Press the left ◀ or right ▶ button to switch between modes.

¬> NORMAL ←> COOL ←>> WARM ←¬

COLOR MANAGEMENT ON

Enables vivid color adjustment automatically.

Helpful Hint (NORMALIZE Normalization)

While the "PICTURE" menu is displayed, if either the N button on the remote control is pressed at any time or the ACTION (**■**) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

Item	Eff	ect	Adjustments
PICTURE	Less	More	Adjusts the proper picture contrast.
BRIGHTNESS	Darker	Brighter	Adjusts for easier viewing of dark pictures such as night scenes and black hair.
COLOR	Less	More	Adjusts color saturation.
TINT	Reddish	Greenish	Adjusts for natural flesh tones.
SHARPNESS	Less	More	Adjusts picture sharpness.

Notes:

- "COLOR" and "TINT" settings cannot be adjusted for "RGB/PC" and "Digital" input signal.
- You can change the level of each function (PICTURE, BRIGHTNESS, COLOR, TINT, SHARPNESS) for each PICTURE MENU.
- The setting details for STANDARD, DYNAMIC and CINEMA respectively are memorized separately for each input terminal.
- The "TINT" setting can be adjusted for NTSC signal only during "VIDEO (S VIDEO)" input signal.
- In PICTURE, there is not a noticeable change even when contrast is increased with a bright picture or reduced with a dark picture.

ADVANCED SETTINGS

Item	Eff	ect	Details
BLACK EXTENSION	Less	More	Adjusts the dark shades of the image in gradation.
INPUT LEVEL	Less	More	Adjustment of parts which are extremely bright and hard to see. (This cannot be adjusted when the input signal is Digital.)
GAMMA	Down	Up	S CURVE ←→ 2.0 ←→ 2.2 ←→ 2.5 ←→ 2.6* * When 2k1k signals are received with the Dual Link HD-SDI Terminal Board (TY-FB11DHD), GAMMA "2.6" can also be selected.
AGC	OFF	ON	Increases the brightness of dark signal automatically.
W/B HIGH R	Less	More	Adjusts the white balance for light red areas.
W/B HIGH G	Less	More	Adjusts the white balance for light green areas.
W/B HIGH B	Less	More	Adjusts the white balance for light blue areas.
W/B LOW R	Less	More	Adjusts the white balance for dark red areas.
W/B LOW G	Less	More	Adjusts the white balance for dark green areas.
W/B LOW B	Less	More	Adjusts the white balance for dark blue areas.

Notes:

- Carry out "W/B" adjustment as follows.
 - 1. Adjust the white balance of the bright sections using the "W/B HIGH R", "W/B HIGH G" and "W/B HIGH B" settings.
 - 2. Adjust the white balance of the dark sections using the "W/B LOW R", "W/B LOW G" and "W/B LOW B" settings.
 - 3. Repeat steps 1 and 2 to adjust.

Steps 1 and 2 affect each other's settings, so repeat each step in turn to make the adjustment.

- The adjustment values are memorized separately for each input terminal.
- The adjustment range values should be used as an adjustment reference.

Helpful Hint (NORMALIZE Normalization)

On the remote control unit, while the "ADVANCED SETTINGS" menu is displayed, if either the N button is pressed at any time or the ACTION (**I**) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

SOUND Adjustment

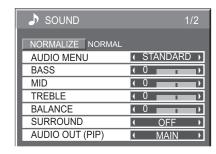
1 SOUND Press to display the SOUND menu.

2 Select to adjust each item.

Press to select the menu to adjust.



Select the desired level by listening to the sound.



SOUND Press to exit from adjust mode.

Item	Details
AUDIO MENU	STANDARD: Emits the original sound. DYNAMIC: Accentuates sharp sound. CLEAR: Attenuates human voice.
BASS	Adjusts low pitch sounds.
MID	Adjusts normal sounds.
TREBLE	Adjusts pitch sound.
BALANCE	Adjusts left and right volumes.
SURROUND	Select ON or OFF.
AUDIO OUT (PIP)	MAIN: Selects main picture sound. SUB: Selects PIP frame sound. Musical note ♪ is displayed on right side of the audio output screen label.

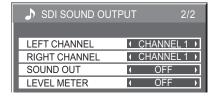
Note: BASS, MID, TREBLE and SURROUND settings are memorized separately for each AUDIO MENU.

Helpful Hint (NORMALIZE Normalization)

While the "SOUND" menu is displayed, if either the N button on the remote control is pressed at any time or the ACTION (**■**) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

SDI SOUND OUTPUT

This menu is displayed when HD-SDI Terminal Board with audio (TY-FB10HD) or Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed to the unit.



Notes:

- This menu is available only when selecting a slot that HD-SDI Terminal Board with audio (TY-FB10HD) or Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed.
- This menu is unavailable when two-screen display mode is active.

Item	Details
LEFT CHANNEL	CHANNEL 1 to CHANNEL 16 Selects left audio channel.
RIGHT CHANNEL	CHANNEL 1 to CHANNEL 16 Selects right audio channel.
SOUND OUT	ON ←→ OFF ON: Enables audio output. OFF: Disables audio output.
LEVEL METER	OFF ←→ 1-8CH ←→ 9-16CH Sets audio channels to show in the audio level meter. 8 channels are displayed in the audio level meter; 4 channels each on both right and left sides of the display. OFF: Hides the audio level meter. 1-8CH: Displays the audio level meter (1-8ch) 9-16CH: Displays the audio level meter (9-16ch)

PRESENT TIME SETUP / SET UP TIMER

The timer can switch the Plasma Display ON or OFF.

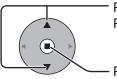
Before attempting Timer Set, confirm the PRESENT TIME OF DAY and adjust if necessary. Then set POWER ON TIME / POWER OFF TIME.

1



Press to display the SET UP menu.

2



Press to select SET UP TIMER or PRESENT TIME SETUP.

Press to display the SET UP TIMER screen or PRESENT TIME SETUP screen.

SET UP MULTI DISPLAY SETUP MULTI PIP SETUP PORTRAIT SETUP SET UP TIMER PRESENT TIME SETUP DISPLAY ORIENTATION LANDSCAPE

PRESENT TIME SETUP

PRESENT TIME OF DAY

SET

DAY

PRESENT TIME OF DAY MON 99:99

PRESENT TIME SETUP



Press to select DAY or PRESENT TIME OF DAY.

Press to set up DAY or PRESENT TIME OF DAY.

- ▶ button: Forward
- button: Back

Notes:

- Pressing "◄" or "▶" button once changes PRESENT TIME OF DAY 1 minute.
- Pressing "¬" or "¬" button continuously changes PRESENT TIME OF DAY by 15 minutes.



Press to select SET.

Press to store PRESENT TIME SETUP.

Notes:

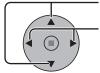
- · SET cannot be selected unless PRESENT TIME OF DAY is set.
- Unless setting the present time other than "99:99", DAY setting is invalid.
- The settings of "DAY" and "PRESENT TIME OF DAY" are reset when leaving the display turned off for about 7 days for the following reasons:

Pressing ()/| switch of the unit to turn off the display.

Disconnecting the AC cord.

Interruption of power supply.

SET UP TIMER



Press to select POWER ON TIME / POWER OFF TIME.

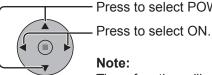
Press to set up POWER ON TIME / POWER OFF TIME.

▶ button: Forward ■ button: Back

Notes:

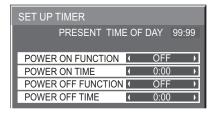
- Pressing "◄" or "▶" button once changes POWER ON TIME / POWER OFF TIME 1 minute.
- Pressing "◄" or "▶" button continuously changes POWER ON TIME / POWER OFF TIME by 15 minutes.

Press to select POWER ON FUNCTION / POWER OFF FUNCTION.



Note:

Timer function will not work unless "PRESENT TIME OF DAY" is set.



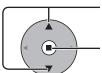
SCREENSAVER (For preventing image retention)

Do not display a still picture, especially in 4:3 mode, for any length of time. If the display must remain on, a SCREENSAVER should be used.



Press to display the SET UP menu.

2



Press to select the SCREENSAVER.

Press to select the SCREENSAVER screen.

FUNCTION selection



Press to select the FUNCTION.

Press to select the desired function. \Rightarrow NEGATIVE IMAGE \longleftrightarrow SCROLLING BAR ONLY \leftarrow

 \Rightarrow WHITE SCREEN \longleftrightarrow OVERLAY SCROLLING BAR $\ \leftarrow$

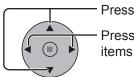
NEGATIVE IMAGE : A negative image will be displayed on the screen.

SCROLLING BAR ONLY: A white bar will scroll from left to right. The image won't be displayed. OVERLAY SCROLLING BAR: The brightness of the image will be decreased and a white bar will scroll on it.

WHITE SCREEN : The whole screen will be white.

Note: OVERLAY SCROLLING BAR is not effective during two screen display.

MODE selection



Press to select the MODE.

Press to select each mode

items.



INTERVAL

: Operates when SHOW DURATION and SAVER DURATION are set up and those times arrive.

TIME OF DAY: Operates when START TIME and FINISH TIME \$

ACTION (■) button is pressed.

are set up and those times arrive. : Operates when START is selected and the

ON START setting

Press to start SCREENSAVER.



When the MODE is set to ON, press to select START.

The menu screen will disappear and the SCREENSAVER will be activated. To stop the SCREENSAVER under ON, press the R button or any buttons on the main unit.

Note: When the display is turned off, the SCREENSAVER will be deactivated.

Setup of SCREENSAVER Time

After selecting TIME OF DAY or INTERVAL, the relevant Time Setup will become available for selection and the Operating Time may be set. (Time cannot be set when "MODE" is "ON" or "OFF".)



Press to select START TIME / FINISH TIME (When TIME OF DAY is selected). Press to select SHOW DURATION / SAVER DURATION (When INTERVAL is selected).

Press to setup.

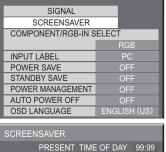
button: Forward

◆ button: Back

Notes:

- Pressing "◄" or "▶" button once changes the Time 1 minute. [However, switching occurs every 15 minutes when Periodic Time is selected.]
- Pressing "◀" or "▶" button continuously changes the Time by 15 minutes.

Note: Timer function will not work unless "PRESENT TIME OF DAY" is set.



≣ SET UP

SCREENSAVER	
PRESENT TIME	E OF DAY 99:99
START	
FUNCTION SCROLL	ING BAR ONLY)
MODE	OFF)
START TIME	6:15
FINISH TIME	12:30
SIDE BAR ADJUST	BRIGHT
WOBBLING	OFF
PEAK LIMIT	OFF



SCREENSAVER						
PRES	SENT TIME	E OF DAY	15:00			
START						
FUNCTION	SCROLLING BAR ONLY					
MODE	IN	ITERVAL				
SHOW DURA	SHOW DURATION		0)			
SAVER DURA	SAVER DURATION))			

Reduces screen image retention

These functions prevent the occurrence of an "image retention" on the display when turned ON.

WOBBLING: Automatically shifts the display image (therefore unnoticeable to the eye) to prevent image retention of

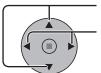
sharper contour of image.

ON1: Shifts the image every 30 seconds.

ON2: Shifts the image at a dot level pitch depending on screen-detection.

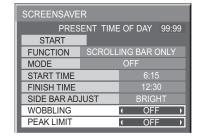
PEAK LIMIT: Suppresses image contrast (peak brightness).

Note: When a still picture is viewed for an extended time, the screen may become slightly darker. (see page 49)



Press to select "WOBBLING" or "PEAK LIMIT".

Press to select "ON1", "ON2" or "OFF" (WOBBLING). "ON" or "OFF" (PEAK LIMIT).

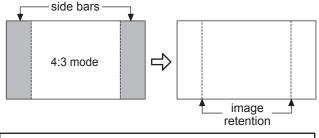


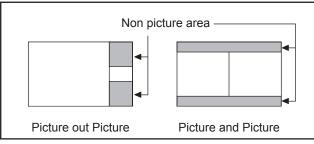
SIDE BAR ADJUST

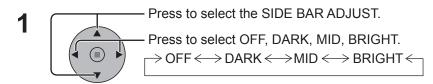
Do not display a picture in 4:3 mode for an extended period, as this can cause an image retention to remain on the side bars on either side of the display field.

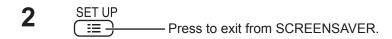
To reduce the risk of such an image retention, illuminate the side bars.

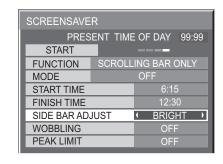
This function may be applicable to the non-picture area.











Notes:

- To reduce the occurrence of image retention, set the SIDE BAR ADJUST to BRIGHT.
- The side bar may flash (alternate black/white) depending on the picture being shown on the screen. Using Cinema mode will reduce such flashing.

Reduces power consumption

• POWER SAVE:

When this function is turned ON, luminous level of the Plasma Display is suppressed, so power consumption is reduced.

STANDBY SAVE:

When this function is turned ON, power consumption of the microcomputer is reduced during power supply standby (see page 13, 16, 17), so standby power of the set is reduced.

POWER MANAGEMENT:

When this function is set to ON, it operates under the following conditions to turn the power on or off automatically.

When no pictures (HD/VD sync signals) are detected for 30 or so seconds during PC IN signal input:

→ Power is turned off (standby); the power indicator lights up orange.

When pictures (HD/VD sync signals) are subsequently detected:

→ Power is turned on; the power indicator lights up green.

Notes:

- This function operates only during PC IN signal input.
- This function is invalid during input from PC Input Terminal Board (TY-42TM6P).
- This function is effective when "SYNC" is set to "AUTO", "COMPONENT / RGB-IN SELECT" is set to "RGB" and during normal viewing (one picture screen).

• AUTO POWER OFF:

Equipment power supply is turned OFF when there is no signal.

When this is set to On, the power supply of the unit goes Off 10 minutes after the input signals stop.

Notes:

- This function operates only during PC IN signal input.
- This function is effective when "SYNC" is set to "AUTO", "COMPONENT / RGB-IN SELECT" is set to "RGB" and during normal viewing (one picture screen).

1



Press to select "POWER SAVE"

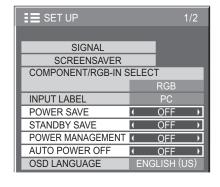
- "STANDBY SAVE"
- "POWER MANAGEMENT"
- "AUTO POWER OFF".

2



Press to select "ON" or "OFF".

 $On \longleftrightarrow Off$



3

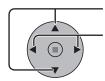


Press to exit from SET UP.

Customizing the Input labels

This function can change the label of the Input signal to be displayed.

Select the input signal which you would like to change its label before customizing the Input labels. (see page 15, 17)



- Press to select INPUT LABEL.

Press to change the INPUT LABEL.

Note:

While selecting a Input signal through Optional Terminal Board connected to Slot 1, Slot 2 and Slot 3, the Input label will depend on each Optional Terminal Board.

INPUT LABELS for Slot 1, Slot 2, Slot 3 and Mini D-sub:

[Slot1 Input] INPUT1/VIDEO1/COMPONENT1/RGB1/DIGITAL1/PC1/DVD1/CATV1/VCR1/STB1 [Slot2 Input] INPUT2/VIDEO2/COMPONENT2/RGB2/DIGITAL2/PC2/DVD2/CATV2/VCR2/STB2

[Slot3 Input] INPUT3/VIDEO3/COMPONENT3/RGB3/PC3/DVD3/CATV3/VCR3/STB3

[PC (Mini D-sub) input] PC/COMPONENT/RGB/DVD/STB

When BNC Dual Video Terminal Board (TY-FB9BD) is used, an "A" or "B" is added at the end of each input label, depending on the input selected (see below).

Addition sign	"A"	"B"
Selected Input	Composite	S VIDEO

DISPLAY ORIENTATION

Sets the fan control and the display style of on-screen menu for vertical installation.

1 SET UP □

Press to display the SET UP menu.

2

Press to select DISPLAY ORIENTATION.

Press to select "LANDSCAPE" or "PORTRAIT".

SET UP
Press to exit from adjust mode



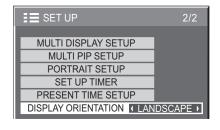
LANDSCAPE

PORTRAIT

Fan control for horizontal installation. Fan control for vertical installation. On-screen menu will be rotated 90 degrees counterclockwise to be suitable for the setting.

Notes:

- Turn up the power switch for the upward direction when you set Display vertically.
- Fan control will be switched when turning on the unit next time.



≣ SET UP

INPUT LABEL

POWER SAVE STANDBY SAVE POWER MANAGEMENT

AUTO POWER OFF

OSD LANGUAGE

SIGNAL

SCREENSAVER
COMPONENT/RGB-IN SELECT

PC



SET UP for MULTI DISPLAY

By lining up Plasma Displays in groups, for example, as illustrated below, an enlarged picture may be displayed across all screens. For this mode of operation, each plasma display has to be set up with a Display number to determine its location.

(Example)

group of 4 (2×2) group of 9 (3×3)









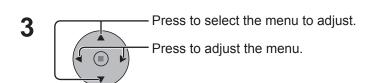
How to setup MULTI DISPLAY

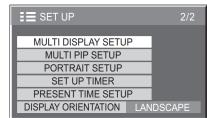
SET UP

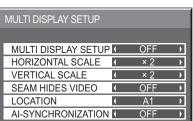
☐ Press to display the SET UP menu.

Press to select the MULTI DISPLAY SETUP.

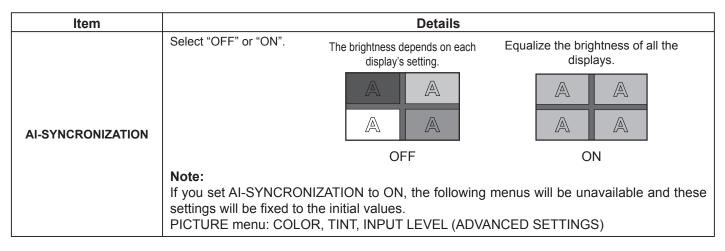
Press to display the "MULTI DISPLAY SETUP" menu.







Item	Details													
MULTI DISPLAY SETUP	Select "ON" or "OFF". Note: If you set MULTI DISPLAY SETUP to ON, PORTRAIT SETUP will be unavailable.													
HORIZONTAL SCALE	Select "× 1", "× 2", "× 3", "× 4", "× 5".													
VERTICAL SCALE	Select "× 1", "× 2", "× 3", "× 4", "× 5".													
	Select "ON" or "OF	F".	. To hide joints be			tween displays.			To show joints between displays.					
SEAM HIDES VIDEO			Suit	able fo	Exa r movin	g imag	je disp	ay.		Suitab	le for	xar m	nage (display
	Select the required Display Number (Examples) (2 × 1) (2 × 3	locatio	ns fo	r ea	ch ar	rang	eme	nt.				5 × 5	;)	
LOCATION	A1 A2 A1 A	A2 A1	A2	А3	A4	A1	A2	АЗ	A4	A1	A2	A3	A4	A5
LOCATION	B1 E	32 B1	B2	B3	B4	B1	B2	В3	B4	B1	B2	В3	B4	B5
	C1 (D2				C1	C2	СЗ	C4	C1	C2	C3	C4	C5
						D1	D2	D3	D4	D1	D2	D3	D4	D5
							•			E1	E2	E3	E4	E5



4

SET UP

☐ Press to exit from adjust mode.

ID Remote Control Function

You can set the remote control ID when you want to use this remote control on one of several different displays.

- Switch NORMAL U. D to NORMAL U. D on the right side.
- Press the C button on the remote control.
- **3** Press one of 1 9, 0 for the tens digit setting.
- 4 Press one of 1 9, 0 for the units digit setting.

Notes:

- The numbers in 2, 3 and 4 should be set up quickly.
- Adjustable ID number range is 0 99.
- If a number button is pressed more than two times, the first two numbers become the ID number for the remote control.

ID remote control button operation

The operation is the same as normal remote control except for the $\binom{\circ}{\mathsf{v}}$ button.

ID Cancellation

Press ---- button on remote control. (This has the same effect as pressing the C, 0, 0 buttons at the same time.)

Notes:

- Set the Remote ID "On" to operate the ID remote control.

 If remote ID is set to "On", you can use the remote control without identical ID number during option menu display.

 (see page 45)
- The ID remote control cannot be used when ID select is set to anything other than 0, and the remote control ID is not the same as the ID select number (see page 45).

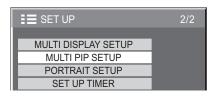
MULTI PIP SETUP

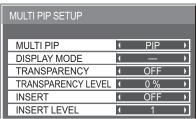
Set the two-screen display function that is activated when $\stackrel{\text{MULTI PIP}}{\frown}$ is pressed.

SET UP Press to display the SET UP menu.

Press to select the MULTI PIP SETUP. Press to display the "MULTI PIP SETUP" menu.

Press to select the menu to adjust. 3 Press to adjust the menu.

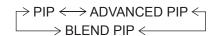




MULTI PIP

DISPLAY MODE

Set the two-screen function.



The display mode can be changed separately for each function that was set in "MULTI PIP SETUP". For "PIP": \rightarrow — (One screen) \leftrightarrow P AND P \leftrightarrow P OUT P \leftrightarrow P IN P \leftarrow

For "ADVANCED PIP": \rightarrow — (One screen) \longleftrightarrow 1 to 8 \leftarrow For "BLEND PIP": \rightarrow — (One screen) \longleftrightarrow FULL \longleftrightarrow P IN P \longleftrightarrow

Note: The display mode changes in the same way when is pressed.

Transparent Display of the Sub Screen (During BLEND PIP)

- Select "ON" in "TRANSPARENCY".
- ② Set the transparency level for the sub screen in "TRANSPARENCY LEVEL". (0 to 100 %) Setting example Transparent image (sub screen)









Two-picture insertion

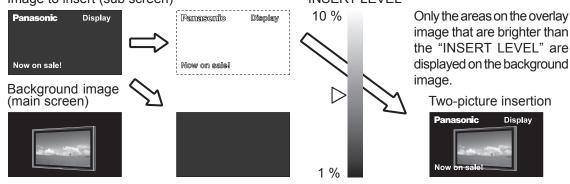
0 %: No transparency

100 %: Fully transparent

Note: "INSERT" cannot be set when "TRANSPARENCY" is "ON".

Sub Screen Insertion (During BLEND PIP)

- ① Select "ON" in "INSERT".
- 2 Set the "INSERT LEVEL". (1 to 10 %) Set the brightness level threshold for discriminating between the transparent areas and non-transparent areas on the sub screen. Setting example Image to insert (sub screen) INSERT LEVEL



Note: "TRANSPARENCY" cannot be set when "INSERT" is "ON".

SET UP for PORTRAIT

Divide an input image into 3 parts, and display one of them to a plasma display which is set vertically. The image will be enlarged 3 times and rotated 90-degree.

(Example)



Note:

When using the PORTRAIT function with displays set vertically, "DISPLAY ORIENTATION" in SET UP menu has to be set to "PORTRAIT" (see page 33).

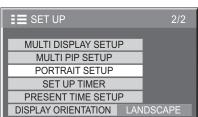
How to setup PORTRAIT

1 SET UP Press to display the SET UP menu.



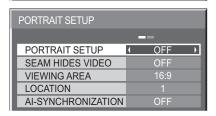
Press to select the PORTRAIT SETUP.

Press to display the "PORTRAIT SETUP" menu.

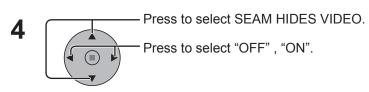


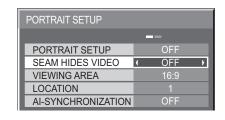
Press to select the PORTRAIT SETUP.

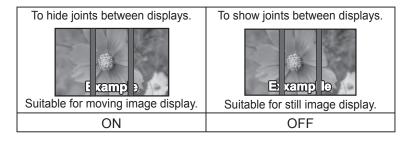
Press to select "ON" or "OFF".



Note:
If you set PORTRAIT SETUP to ON, MULTI DISPLAY SETUP will be unavailable.



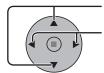




VIEWING AREA / LOCATION

VIEWING AREA: Set a mode of image division for PORTRAIT function.

Set a location of image to be displayed for PORTRAIT function.



Press to select VIEWING AREA or LOCATION.

Press to select each function.

PORTRAIT SETUP SEAM HIDES VIDEO VIEWING AREA 16.9 LOCATION AI-SYNCHRONIZATION

PORTRAIT SETUP

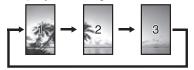
Notes:

- For HD signal videos, the "VIEWING AREA" is set at "16:9", and cannot be changed. HD signal: 1125 (1080) / 60i • 50i • 60p • 50p • 24p • 25p • 30p • 24sF, 750 (720) / 60p • 50p, 1250 (1080) / 50i
- When "VIEWING AREA" is "16:9", the aspect mode is set to "FULL".

LOCATION setting

When PORTRAIT SETUP "ON":

Display the image of the selected LOCATION.



When PORTRAIT SETUP is "OFF":

Represent an area of the selected LOCATION at a normal

brightness and darken the rest of it.

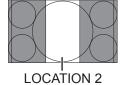


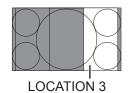
VIEWING AREA and LOCATION

The mode of image division and the LOCATION by setting of VIEWING AREA is as follows.









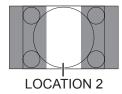
Suitable to display FULL images. NORMAL (4:3) images extend transversely.

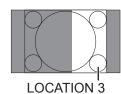
Both right and left sides of the image are cut by 48 dots.



Undisplayed area (48 dots)





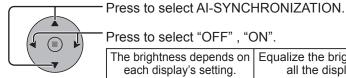


4:3 images are displayed without changing aspect ratio.

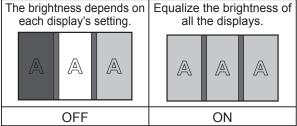
Although the images of each LOCATION overlap, you can adjust POS. / SIZE to display the image normally. (see page 24)

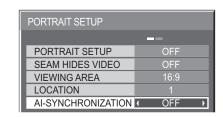
AI-SYNCHRONIZATION

Adjust to equalize the brightness of the 3 displays when using PORTRAIT setting.



Press to select "OFF", "ON".





Note:

If you set AI-SYNCHRONIZATION to ON, the following menus will be unavailable and these settings will be fixed to the initial values.

PICTURE menu: COLOR, TINT, INPUTLEVEL (ADVANCED SETTINGS)



Press twice to exit from SET UP.

SET UP for Input Signals

COMPONENT / RGB IN SELECT

Select to match the signals from the source connected to the COMPONENT / RGB input terminals. Y, P_B , P_R signals \Longrightarrow "COMPONENT"

RGB signals ⇒ "RGB"

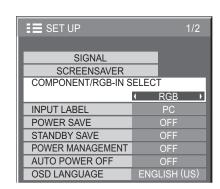
1 SET UP Press to display the SET UP menu.

Press to select the "COMPONENT / RGB-IN SELECT".

Press to select the desired mode.

COMPONENT
RGB

3 SET UP Press to exit from adjust mode.



Notes:

- Selection may not be possible, depending on which optional board is installed.
- Make setting of the selected input terminal (SLOT1, SLOT2, SLOT3 or PC IN).

YUV / RGB IN SELECT

Select to match the signals from the source connected to the DVI input terminals. YUV signals \implies "YUV"

RGB signals ⇒ "RGB"

1 SET UP

Press to display the SET UP menu.

Press to select the "YUV / RGB-IN SELECT".

Press to select the desired mode.

YUV
RGB-IN SELECT".



SIGNAL SCREENSAVER YUV/RGB-IN SELECT INPUT LABEL PC POWER SAVE STANDBY SAVE POWER MANAGEMENT AUTO POWER OFF OSD LANGUAGE POSSIBLE OFF OSD LANGUAGE POSSIBLE OFF OSD LANGUAGE SIGNAL RGB PC RG

Notes:

- Selection may not be possible, depending on which optional board is installed.
- Make setting of the selected input terminal (SLOT1 or SLOT2).

SIGNAL menu

Note:

"SIGNAL" setup menu displays a different setting condition for each input signal.

Press to select the "SIGNAL".

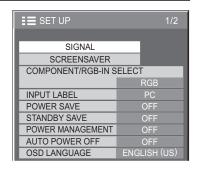
Press to display the SIGNAL menu.

Press to select the menu to adjust.

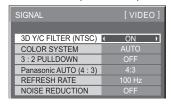
Press to adjust the menu.

4 SET UP

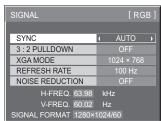
Press to exit from adjust mode.



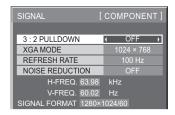
For VIDEO (S VIDEO)



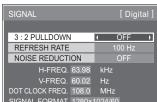
For RGB



For COMPONENT

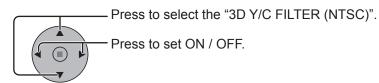


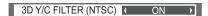
For Digital



3D Y/C FILTER - For NTSC AV images

Select "SIGNAL" from the "SET UP" menu during VIDEO (S VIDEO) input signal mode. ("SIGNAL [VIDEO]" menu is displayed.)



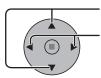


Note:

When ON, this setting only affects NTSC input signals.

COLOR SYSTEM / Panasonic AUTO

Select SIGNAL from the "SET UP" menu during VIDEO (S VIDEO) input signal mode.("SIGNAL [VIDEO]" menu is displayed.)



Press to select the "COLOR SYSTEM" or "Panasonic AUTO".

Press to select each function.

If the image becomes unstable:

With the system set on Auto, under conditions of low level or noisy input signals the image may in rare cases become unstable. Should this occur, set the system to match the format of the input signal.

SIGNAL		[VIDE	0]
3D Y/C FILTER (NTSC)		ON	
COLOR SYSTEM	1	AUTO	-
3:2 PULLDOWN		OFF	
Panasonic AUTO (4:3)	1	4:3	•

Mode	Function	
COLOR SYSTEM	Set the color system to match the input signal. When selecting "AUTO", the color system is automatically selected from NTSC/PAL/SECAM, however, M.NTSC signal is not displayed properly depending on the attached terminal board. To display M.NTSC signal, select "M.NTSC" in COLOR SYSTEM. AUTO PAL SECAM M.NTSC NTSC	
Panasonic AUTO (4:3)	Set to "4:3" to view 4:3 images in an unchanged format when Panasonic AUTO is selected. If you would like to view 4:3 images in Just format, set to "JUST".	

Note:

Panasonic AUTO does not function when BNC Dual Video Terminal Board (TY-FB9BD) is used.

3:2 PULLDOWN

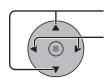
3:2 PULLDOWN: When ON, the display attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded at 24 frames per second.

If the picture is not stable, turn the setting to OFF.

Notes:

When ON, this setting only affects the following signal input:

- NTSC / PAL signal input during "VIDEO (S VIDEO)" input signal.
- 525i(480i), 625i(575i), 1125(1080)/60i signal input during "COMPONENT" input signal.



Press to select "3:2 PULLDOWN".

Press to set ON/OFF.

3:2 PULLDOWN OFF

XGA MODE

This menu is displayed when the input signal is analog (Component/PC). This unit supports three types of XGA signals with 60Hz vertical frequency having different aspect ratios and sampling rates (1,024 × 768 @ 60Hz, 1,280 × 768 @ 60Hz, and 1,366 × 768 @ 60Hz). Be sure to make settings in accordance with the input signal in order to achieve a more appropriate and attractive display.

In addition, after making this setting, be sure to make each adjustment (such as "AUTO SETUP") on the "POS. /SIZE" menu as necessary. (see page 24)



Press to select "XGA MODE".

Press to select "1024×768", "1280×768", "1366×768".

XGA MODE (1024 × 768)

REFRESH RATE

This function sets the refresh rate of the display.

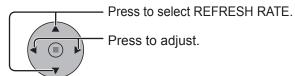
This menu is displayed when the input signal is 50 Hz system (50i, 50p, 25p, 24p, 24sF) of vertical scan rate.

100 Hz: Reduce screen flicker.

50 Hz: Enhance the resolution of moving images.

Note:

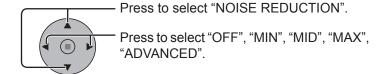
It is recommended to set to 100 Hz normally.

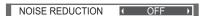




NOISE REDUCTION

Sets the following three NR (Noise Reduction) functions together. VIDEO NR, MOSQUITO NR, BLOCK NR

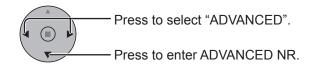




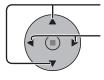
Advanced NR

Sets the three NR functions separately.

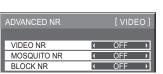








Press to select VIDEO NR, MOSQUITO NR or BLOCK NR. Press to select "OFF", "MIN", "MID", "MAX".



ADVANCED NR		[RGB]
VIDEO NR	(OFF)
MOSQUITO NR	(OFF 🕨
BLOCK NR	1	OFF)

◆ ADVANCED →

NOISE REDUCTION

ADVANCED NR	[COMPONENT]
VIDEO NR	◆ OFF →
MOSQUITO NR	(OFF)
BLOCK NR	(OFF)

ADVANCED NR	[Digital]
VIDEO NR	◆ OFF →
MOSQUITO NR	◆ OFF →
BLOCK NR	(OFF)

VIDEO NR: Automatically reduces unwanted picture noise.

MOSQUITO NR: Reduces mosquito noise around subtitles on MPEG videos.

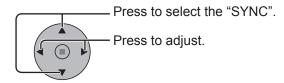
BLOCK NR: Reduces block noise when playing MPEG videos.

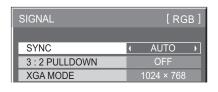
Notes:

- NOISE REDUCTION cannot be adjusted while a PC signal is being applied.
- · BLOCK NR cannot be adjusted while a HD signal is being applied.

SYNC

Select SIGNAL from the "SET UP" menu during RGB input signal.





Setting RGB sync signal

Confirm that the input is set to RGB INPUT (this setting is valid only for RGB INPUT signal).

AUTO: The H and V sync or synchronized signal are automatically selected.

If both input, it is selected the H and V sync.

ON G: Uses a synchronized signal on the Video G signal, which is input from

the G connector.

VBS: Uses a synchronized signal of Composite Sync input, which is input

from the HD connector.

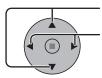


SDI THROUGH

Set the active through function of the Dual Link HD-SDI Terminal Board (TY-FB11DHD).

Note:

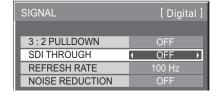
Settings can only be performed for this menu when a slot mounted with a Dual Link HD-SDI Terminal Board (TY-FB11DHD) is selected.



Press to select the "SDI THROUGH".

Press to select "ON" or "OFF".

ON: Enables active through. OFF: Disables active through.



Input signal display

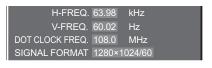
Displays the frequency and the type of the current input signal.

This display is valid only for COMPONENT/RGB/PC and Digital input signal. Display range:

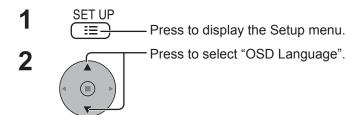
Horizontal 15 - 110 kHz Vertical 48 - 120 Hz



The dot clock frequency is displayed during digital signal input.



Options Adjustments



SURROUND

Press and hold until the Options menu is displayed.

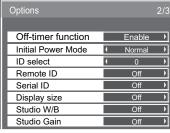
Press to select your preferred menu.

5 Press to adjust the menu.

SET UP

☐ Press to exit from Options menu.

Options 1/3				
Weekly Command Tir	nor			
Onscreen display	IICI	On)
Initial INPUT		Off)
Initial VOL level	Off		0)
Maximum VOL level	Off		0)
INPUT lock	(Off		- }
Button lock	(Off		· ·
Remocon User level	1	Off		· ·



Options			3/3
Slot power	1	Off	•
Power On Screen Delay		Off)
Clock Display	1	Off	
All Aspect	1	Off	<u> </u>
Rotate	1	Off	•
Serial Slot Select	1	Slot1	

Item	Adjustments		
Weekly Command Timer	Sets Weekly Command Timer. (see page 47)		
Onscreen display	 On: Displays all the following on screen. Power on display Input signal switch display No signal display Mute and the remaining time of off-timer after → was pressed. Off: Hides all the items above from view. 		
Initial INPUT	Off ←> PC ←> INPUT1 ←> INPUT2 ←> INPUT3 Adjusts the input signal when the unit is turned on. Notes: • Only the adjusted signal is displayed. (see page 15) • Signal can be displayed when the Terminal board is installed. • This menu is available only when "INPUT lock" is "Off". • When a dual input terminal board is attached, A or B is displayed depending on the selected input signal. (Ex. INPUT1A, INPUT1B)		
Initial VOL level	Press button to adjust the volume when the unit is turned on. Off button to adjust the volume when the unit is turned on. Off: Sets normal volume. On: Sets your preferred volume. Notes: • When "Maximum VOL level" is "On", the volume can only be adjusted between 0 and your maximum range. • You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Initial VOL level" is "On" and cursor is on the menu.		
Maximum VOL level	Press button to adjust the maximum volume. Off On Off: Sets auto maximum volume. On: Sets your preferred maximum volume. Notes: If the "Maximum VOL level" is set lower than the "Initial VOL level", the "Initial VOL level" automatically becomes the same as the "Maximum VOL level". The volume display can go up to 63 regardless of the settings. You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Maximum VOL level" is "On" and cursor is on the menu.		

Item	Adjustments
INPUT lock	Off ←> PC ←> INPUT1 ←> INPUT2 ←> INPUT3 Locks the input switch operation. Notes: • Only the adjusted signal is displayed (see page 15). • Signal can be displayed when the Terminal board is installed. • Input switch can be used when this is set to "Off". • In two screen display mode, if anything other than "Off" is set, the value will be fixed as the value input in the single screen display mode. • When a dual input terminal board is attached, A or B is displayed depending on the selected input signal.
Button lock	Off ←→ MENU&ENTER ←→ On Off: All the buttons on main unit can be used. MENU&ENTER: Locks ☐ and ☐ buttons on main unit. On: Locks all the button on main unit. Sets Button lock with the unit buttons in the following procedure. Off: Press ☐ four times→Press
Remocon User level	Off ←→ User1 ←→ User2 ←→ User3 Off: You can use all of the buttons on the remote control. Off: Note The Part → Note The Part
Off-timer function	Enable: Enables the "Off-timer function". Disable: Disables the "Off-timer function". Note: When "Disable" is set, the Off-timer is cancelled.
Initial Power Mode	Normal ←→ Standby ←→ On Sets the power mode of the unit for when the power recovers from failure or after plugging off and in again. Normal: Power returns in as the same state as before the power interruption. Standby: Power returns in standby mode. (Power Indicator : red/orange) On: Power returns in power On. (Power Indicator : green) Note: When using multiple displays, "Standby" is preferred to be set in order to reduce a power load.
ID select	Sets panel ID number when panel is used in "Remote ID" or "Serial ID". Set value range: 0 - 100 (Standard value: 0)
Remote ID	Off: Disables ID remote control functions. You can use normal remote control operations. On: Enable ID remote control functions. Note: To use the ID remote control function, it is necessary to set each ID number of remote control and display unit. About the setting method, please refer to "ID Remote Control Function" (see page 35) and "ID select" (above-mentioned).
Serial ID	Sets the panel ID Control. Off: Disables external control by the ID. On: Enables the external control by the ID.
Display size	Adjusts the image display size on screen. Off: Sets the normal image display size on screen. On: Sets the image display size approximately 95 % of the normal image display. Off On Notes: This setting is valid only when the input signals are as follows; NTSC, PAL, SECAM, M.NTSC, PAL60, PAL-M, PAL-N (BNC Dual Video Terminal Board (TY-FB9BD)) 525i, 525p, 625i, 625p, 750/60p, 750/50p, 1125/60i, 1125/24sF, 1125/25p, 1125/24p, 1125/30p, 1125/60p, 1125/50p, 1250/50i (Component Video, RGB, DVI, SDI, HDMI) This setting is invalid when two screen display, digital zoom, Multi display or Portrait display is selected. When "Display size" is set to "On", "H-POS" and "V-POS" in "POS. /SIZE" can be adjusted. Refer to each board's operating instruction for DVI, SDI, HDMI's corresponding signals.

Options Adjustments

Item	Adjustments		
Studio W/B	Off: Nullify all the settings adjusted. On: Sets the color temperature for TV studio. Note: Valid only when the "WARM" is set as "COLOR TEMP" in PICTURE menu.		
Studio Gain	Sharpens the contrast for a better view when a part of the image is too light to see. Off: Disables "Studio Gain". On: Enables "Studio Gain". Note: This setting is valid only when the input signals are as follows: Component Video, RGB (analog), SDI, HDMI		
Slot Power	Off: → Auto ← On Off: Power is not transmitted to the slot power. Auto: Power is transmitted to the slot power only when main power is on. On: Power is transmitted to the slot power when main power is on or in the standby state. Note: In some cases, power is transmitted to the slot power when main power is on or in the standby state regardless of the slot power setting.		
Power On Screen Delay	Off ←> 1 ←> 2 ←> 3 ←> 30 You can set the power-on delay time of the displays to reduce the power load, when you press ♂ / I to turn on the multiple displays that are set together, for example, on MULTI DISPLAY system. Set each display's setting individually. Off: The display will be turned on at the same time as ♂ / I is pressed. 1 to 30 (sec.): Set the power-on delay time (second). After pressing ♂ / I, the display will be powered on with time delay depending on this setting. Notes: • During this function is working, the power indicator is blinking green. • This function also works when the power recovers from failure or after plugging off and in again the power cord. After you unplug and plug the power cord in while the unit is in standby mode and also the power is being supplied to a terminal board, the unit will start supplying the power to the board with time delay according to the setting. The power indicator lights up red first and it turns orange when the power starts being supplied to the board.		
Clock Display	Off: Not display the clock. On: Display the clock. The clock is displayed at the lower left of the screen when button is pressed. 10:00 Note: When "PRESENT TIME SETUP" is not set, the clock is not displayed even if "Clock Display" is "On" (see page 29)		
All Aspect	Sets All Aspect mode (advanced aspect setting) or default aspect mode. With each press of button, the aspect changes in the selected mode. Off: Default aspect mode On: All Aspect mode Aspect mode of each setting is as follows: (Example: HD signal) Off 4:3→H-FILL→ZOOM→FULL→JUST On 4:3 (1)→4:3 (2)→4:3 Full→Zoom1→Zoom2→Zoom3→16:9→14:9→Just1→Just2		
Rotate	Off: Does not rotate the image. On: Rotates the image 180 degrees.		
Serial Slot Select	Slot1 Slot2 Slot3 Selects the slot which communicates serial. Note: The setting of an external command can be set only from the fixed serial terminal. (see page 11)		

Normalization

When both main unit buttons and remote control are disabled due to the "Button lock", "Remocon User level" or "Remote ID" adjustments, set all the values "Off" so that all the buttons are enabled again.

Press the _____ button on main unit together with ____ button on the remote control and hold for more than 5 seconds. The "SHIPPING" menu is displayed and the lock is released when it disappears.

Weekly Command Timer

You can set 7-day timer programming by setting time and command.

Note:

Before setting Weekly Command Timer, set PRESENT TIME SETUP. (see page 29)



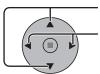
Press to select Function.

Press to select "On".

Note:

• When Function is set to On, SET UP TIMER (see page 29) is unavailable and INTERVAL / TIME OF DAY in MODE of SCREENSAVER (see page 30) cannot be selected.

2

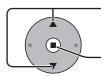


Press to select a day.

Press to select a program number.

Note:

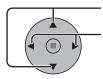
- You can set the program from 1 to 7.
 - --- indicates unset.



Press to select Program Edit.

Press to show the Program Edit screen.

4



Press to select Program.

Press to change the program numbers (1-7).

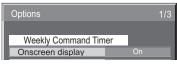
5



Press to select a command number.

Press to show the previous / next command pages (1-8) of the selected program.

Press to show the command setting screen.



Press ACTION (■) button

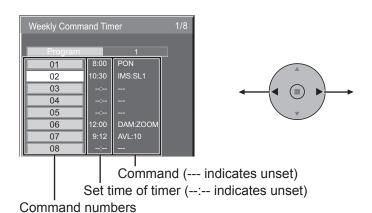


Program number

Thursday	Program3
Friday	
Saturday	Program6
Sunday	Program4
Program Edit	

Program Edit screen







Options Adjustments

6



Press to select Command No.

Press to select a command number.

Command setting screen

Weekly Command Timer

Command No

Time Command



10:30

7



Press to select Time / Command.

Press to set each item.

Time: Set the time to execute a command program.

Pressing "◀" or "▶" button once changes "Time" 1 minute.

Pressing "◀" or "▶" button continuously changes "Time" by 15 minutes.

Command: Select a command to execute at the set time. This unit has 64 commands to set. (see page 53)

Notes:

- · Command is performed in order of execution time, regardless of the command number.
- If a command execution time overlaps with that of other commands, these commands are performed in number order.
- Pressing N, Time becomes --:-- and Command becomes ---.

Note:

Press oto return to the previous screen.

Shipping condition

This function allows you to reset the unit to the factory setting.



Press to display the SET UP menu.

2



Press to select "OSD LANGUAGE".

3



Press and hold till the SHIPPING menu is displayed.

4



Press to select "YES".

Press to confirm.

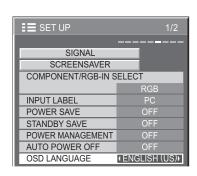
1 1000 to 0011111

[from the unit]

- 1 Press the MENU button till the SET UP menu is displayed.
- 2 Press the Volume Up "+" or Down "-" button to select "OSD LANGUAGE".
- **3** Press and hold the ENTER button till the SHIPPING menu is displayed.
- 4 Press the Volume Up "+" or Down "-" button to select "YES".
- 5 Press the ENTER button and wait for 10 sec.

Note:

Press the R button to return to SET UP menu when SHIPPING menu is displayed.





Troubleshooting

Before you call for service, determine the symptoms and make a few simple checks as shown below.

Symptoms		Checks	
Picture	Sound	Cilecks	
Interference	Noisy Sound	Electrical Appliances Cars / Motorcycles Fluorescent light	
Normal Picture	No Sound	Volume (Check whether the mute function has been activated on the remote control.)	
? No Picture	No Sound	Not plugged into AC outlet Not switched on PICTURE and BRIGHTNESS/Volume setting (Check by pressing the power switch or stand-by button on the remote control.)	
? No Picture	Normal Sound	If a signal with a non-applicable color system format, or frequency is input, only the input terminal indication is displayed.	
No Color	Normal Sound	Color controls set at minimum level. (see page 26, 27) COLOR SYSTEM (see page 41)	
No remote control operations can be performed.		Check whether the batteries have discharged completely and, if they have not, whether they were inserted properly. Check whether the remote control sensor is exposed to an outdoor light or a strong fluorescent light. Check whether the remote control designed specifically for use with the unit is being used. (The unit cannot be operated by any other remote control.)	
A cracking sound is sometimes heard from the unit.		If there is nothing wrong with the picture or sound, this is the sound of the cabinet undergoing very slight contractions in response to changes in the room temperature. There are no adverse effects on the performance or other aspects.	
The top or bottom of the picture on the screen is cut off when I use the zoom function.		Adjust the position of the picture on the screen.	
Areas at the top and bottom of the screen where the image is missing appear when I use the zoom function.			
		When the power is turned on, a sound of the display panel being driven may be heard: This is normal and not indicative of malfunctioning.	
This Plasma Display uses special image processing. H signal. However, this is not a malfunction.		Hence a slight time lag may occur between image and audio, depending on the type of input	

Plasma Display panel

riasma Display panel				
Symptoms	Check			
The screen darkens slightly when bright pictures with minimal movements are shown.	The screen will darken slightly when photos, still images of a computer or other pictures with minimal movements are shown for an extended period. This is done to reduce image retention on the screen and the shortening of the screen's service life: It is normal and not indicative of malfunctioning.			
It takes a while for the picture to appear.	The unit digitally processes the various signals in order to reproduce esthetically pleasing images. As such, it sometimes takes a few moments for the picture to appear when the power has been turned on, when the input has been switched or when the images for the main picture and sub picture on the two screens are swapped.			
The edges of the images flicker.	Due to the characteristics of the system used to drive the panel, the edges may appear to flicker in the fast-moving parts of the images: This is normal and not indicative of malfunctioning.			
The brightness on both sides of images in 4:3 mode changes.	When viewing the side panels at the "BRIGHT" or "MID" setting, the brightness on both sides may change depending on the kind of program shown: This is normal and not indicative of malfunctioning.			
Some parts of the screen do not light up.	The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction.			
Image retention appears	Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display. Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode. Note: The permanent image retention on the Plasma Display resulting from fixed image use is not an operating defect and as such is not covered by the Warranty. This product is not designed to display fixed images for extended periods of time.			
Whirring sounds can be heard from the display unit.	The display unit is fitted with a cooling fan to dissipate heat generated during normal use. The whirring sound is caused by rotation of the fan and is not a malfunction.			

List of Aspect Modes

Aspect mode					
All Aspect: On	Factory setting All Aspect: Off	Picture → Enlarged screen	Description		
16:9	FULL		The display of the pictures fills the screen. In the case of SD signals, pictures with a 4:3 aspect ratio are enlarged horizontally, and displayed. This mode is suited to displaying anamorphic pictures with a 16:9 aspect ratio.		
14:9	-	→ O	Letterbox pictures with a 14:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen vertically and is slightly smaller than the screen horizontally. The top and bottom edges of the pictures are cut off. Side panels are displayed at the left and right edges of the screen.		
Just Just1	JUST	•	Pictures with a 4:3 aspect ratio are enlarged horizontally so that the picture distortion is minimized. The display of the areas around the left and right edges of the screen is slightly elongated.		
Just2	JUST	•	Pictures with a 4:3 aspect ratio are enlarged horizontally so that the picture distortion is minimized. The left and right edges of the pictures are cut off. The display of the areas around the left and right edges of the screen is slightly elongated.		
4:3 4:3 (1)	4:3		Pictures with a 4:3 aspect ratio are displayed with their original aspect ratio. Side panels are displayed at the left and right edges of the screen.		
4:3 (2)	4:3	→ O O O O O O O O O O O O O O O O O O O	Pictures with a 4:3 aspect ratio are displayed with their original aspect ratio. The left and right edges of the pictures are masked by side panels.		
4:3 Full	H-FILL	• • • • • • • • • • • • • • • • • • • •	Pictures with a 4:3 aspect ratio are enlarged horizontally so that their display fills the screen. The left and right edges of the pictures are cut off.		
Zoom1	ZOOM	→ U	Letterbox pictures with a 16:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen. The top and bottom edges of the pictures are cut off.		
Zoom2	ZOOM	→ U	Letterbox pictures with a 16:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen. The top and bottom edges as well as the left and right edges of the pictures are cut off.		
Zoom3	-	→	Letterbox pictures with a 2.35:1 aspect ratio are enlarged vertically and horizontally so that their display fills the screen vertically and is slightly larger than the screen horizontally. The top and bottom edges as well as the left and right edges of the pictures are cut off.		

Applicable Input Signals

Signal name					Component / RGB	
1 \$525 (480) / 600		Signal name	Horizontal frequency	Vertical frequency		DVI-D *8
1 525 (480) 601 15.73 59.94 * (13.5) * (27.0) *5 * (27.0) 3 625 (575) 501 15.63 50.00 * (13.5) * (27.0) * (Olgital Hame	(kHz)	(Hz)		(Dot clock (MHz))
2 S25 (480) 60p 31.47 S9.94 *(27.0) *5 *(27.0) 3 625 (575) 505 15.63 S0.00 *(13.5) 4 625 (575) 50p 31.25 S0.00 *(27.0) 5 625 (576) 50p 31.25 S0.00 *(27.0) 6 750 (720) 60p 45.00 60.00 *(74.25) *(74.25) *(74.25) 7 750 (720) 50p 37.50 S0.00 *(74.25) *(74.25) *(74.25) 8 1,125 (1.080) 60p 67.50 60.00 *(148.5) *1 *(148.5) 9 1,125 (1.080) 60p 56.26 50.00 *(148.5) *1 *(74.25) 10 1,125 (1.080) 50p 56.26 50.00 *(148.5) *1 *(74.25) 11 1,125 (1.080) 50p 56.26 50.00 *(148.5) *1 *(74.25) 12 1,125 (1.080) 750 22.13 50.00 *(74.25) *2 13 1,125 (1.080) 730 73.375 73.00 74.25 *1 *(74.25) 14 1,125 (1.080) 730 73.375 73.00 74.25 *1 *(74.25) 15 1,125 (1.080) 74p 27.00 24.00 *(74.25) *1 *(74.25) 16 1,250 (1.080) 750 31.25 50.00 *(74.25) *1 *(74.25) 17 2,048 *1,080 249 *7 27.00 24.00 *(74.25) *3 *(74.25) *3		525 (480) / 60i	15 73	59 94		
3 625 (575)/50p						* (27.0)
4 625 (576)/50p					* (13.5)	(27.0)
5 625 (\$76) /\$50p 31.25 50.00 (*74.25) (*74					* (27.0)	
6	-				(21.0)	* (27.0)
7					* (74.25)	
8						
9						
10						
11						
12						
13						(74.25)
14						* (74.25)
15						
16						
17						(74.25)
18					(74.25) *3	
19						
20					* (05.47)	
21		640 × 400 @70 HZ				* (05.40)
22		640 × 480 @60 Hz				* (25.18)
23					* (31.5)	
24			37.50			
25			43.27		* (36.0)	
26						
27						* (40.0)
28 800 × 600 @85 Hz 53.67 85.06 * (56.25) 29 852 × 480 @60 Hz 31.47 59.94 * (33.54) *6 * (34.24) 30 1,024 × 768 @50 Hz 39.55 50.00 * (65.0) * (65.0) 31 1,024 × 768 @60 Hz 48.36 60.00 * (75.0) * (65.0) 32 1,024 × 768 @75 Hz 60.02 75.03 * (78.75) * (75.0) 34 1,024 × 768 @85 Hz 68.68 85.00 * (94.5) * (53.0) 35 1,066 × 600 @60 Hz 37.64 59.94 * (53.0) * (53.0) 36 1,152 × 864 @60 Hz 53.70 60.00 * (108.0) 38 1,280 × 768 @60 Hz 67.50 75.00 * (108.0) 38 1,280 × 768 @60 Hz 47.70 60.00 * (108.0) 38 1,280 × 960 @60 Hz 60.00 60.00 * (108.0) 40 1,280 × 960 @60 Hz 63.98 60.02 * (108.0) 41 1,280 × 1,024 @60 Hz 63.98 75.03						
29						
30						
31 1,024 × 768 @60 Hz 48.36 60.00 * (65.0) * (65.0) 32 1,024 × 768 @70 Hz 56.48 70.07 * (75.0) 33 1,024 × 768 @75 Hz 60.02 75.03 * (78.75) 34 1,024 × 768 @85 Hz 68.68 85.00 * (94.5) 35 1,066 × 600 @60 Hz 37.64 59.94 * (53.0) * (53.0) 36 1,152 × 864 @60 Hz 53.70 60.00 * (108.0) * (81.62) 37 1,152 × 864 @75 Hz 67.50 75.00 * (108.0) * (80.14) 38 1,280 × 768 @60 Hz 47.70 60.00 * (108.0) * (108.0) 40 1,280 × 960 @85 Hz 85.94 85.00 * (148.5) * (108.0) 41 1,280 × 1,024 @60 Hz 63.98 60.02 * (108.0) * (108.0) 42 1,280 × 1,024 @75 Hz 79.98 75.03 * (135.0) * (108.0) 43 1,280 × 1,024 @85 Hz 91.15 85.02 * (157.5) * (69.92) 45 </td <td></td> <td>852 × 480 @60 Hz</td> <td></td> <td></td> <td>* (33.54) *6</td> <td></td>		852 × 480 @60 Hz			* (33.54) *6	
32		1,024 × 768 @50 Hz				
33						* (65.0)
34 1,024 × 768 @85 Hz 68.68 85.00 * (94.5) 35 1,066 × 600 @60 Hz 37.64 59.94 * (53.0) * (53.0) 36 1,152 × 864 @60 Hz 53.70 60.00 * (108.0) * (81.62) 37 1,152 × 864 @75 Hz 67.50 75.00 * (108.0) * (80.14) 38 1,280 × 768 @60 Hz 47.70 60.00 * (108.0) * (108.0) 40 1,280 × 960 @60 Hz 60.00 60.00 * (148.5) * (108.0) 41 1,280 × 1,024 @60 Hz 63.98 60.02 * (108.0) * (108.0) 42 1,280 × 1,024 @85 Hz 79.98 75.03 * (135.0) * (108.0) 43 1,280 × 1,024 @85 Hz 91.15 85.02 * (157.5) * (69.92) 44 1,366 × 768 @50 Hz 39.55 50.00 * (86.71) * (87.44) 46 1,400 × 1,050 @60 Hz 48.36 60.00 * (162.0) * (162.0) 48 1,600 × 1,200 @60 Hz 75.00 60.00 * (175.5)						
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51 Macintosh13" (640 × 480) 35.00 66.67 * (30.24) 52 Macintosh16" (832 × 624) 49.72 74.54 * (57.28)					,	
52 Macintosh16" (832 × 624) 49.72 74.54 * (57.28)					* (30.24)	, ,
53 Macintosn∠1 (1,152 × 870) 68.68 75.06 * (100.0)	53	Macintosh21" (1,152 × 870)	68.68	75.06	* (100.0)	

^{*1:} Based on SMPTE 274M standard.

Note: Signals without above specification may not be displayed properly.

^{*3:} Based on SMPTE 295M standard.

^{*2:} Based on SMPTE RP211 standard.

^{*4:} The input signal is recognized as 1,125 (1,080) / 60p.

^{*5:} When selected the RGB format and 525p signal input to the Mini D-sub 15P terminal, it is recognized as VGA 60Hz signal.

^{*6:} When inputted VGA 60Hz format signal from the other than Mini D-sub 15P terminal, it is recognized as 525p signal.

^{*7:} Based on SMPTE 292M and 372M standards. These signals can be received when the Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed.

^{*8:} These signals can be received when the DVI-D Terminal Board (TY-FB11DD) is installed.

Applicable Input Signals

VIDEO input (HDMI)

S	ignal format	Vertical frequency (Hz)	Horizontal frequency (kHz)	Dot clock (MHz)	Number of active pixels	Total number of pixels	Number of active lines	Total number of lines
1	VGA60	59.94	31.47	25.18	640	800	480	525
2	525/60p	59.94	31.47	27.00	720	858	480	525
3	625/50p	50.00	31.25	27.00	720	864	576	625
4	750/60p	60.00	45.00	74.25	1280	1650	720	750
5	750/50p	50.00	37.50	74.25	1280	1980	720	750
6	1125/60i	60.00	33.75	74.25	1920	2200	1080	1125
7	1125/50i	50.00	28.13	74.25	1920	2640	1080	1125
8	1125/60p*	60.00	67.50	148.50	1920	2200	1080	1125
9	1125/50p*	50.00	56.26	148.50	1920	2640	1080	1125
10	1125/24p*	24.00	27.00	74.25	1920	2750	1080	1125

^{*}Not compatible with HDMI Terminal Board (TY-FB8HM). Audio signal Linear PCM: 48/44.1/32 kHz

Command list of Weekly Command Timer

	T	
No.	Command	Control details
1	AAC:MENCLR	Audio Menu (Clear)
2	AAC:MENDYN	Audio Menu (Dynamic)
3 4	AAC:MENSTD AAC:SURMON	Audio Menu (Standard) Surround (ON)
5	AAC:SUROFF	Surround (OFF)
6	AMT:0	Audio Mute (OFF)
7	AMT:1	Audio Mute (OT)
8	ASO:M	Audio out when PIP mode (Main Picture)
9	ASO:S	Audio out when PIP mode (Sub Picture)
10	AVL:00	Audio Volume (00)
11	AVL:10	Audio Volume (10)
12	AVL:20	Audio Volume (20)
13	AVL:30	Audio Volume (30)
14	AVL:40	Audio Volume (40)
15	AVL:50	Audio Volume (50)
16	AVL:60	Audio Volume (60)
17	DAM:FULL	Aspect (FULL)
18	DAM:JUST	Aspect (JUST)
19	DAM:NORM	Aspect (4:3)
20	DAM:SELF	Aspect (Panasonic Auto)
21	DAM:ZOOM	Aspect (ZOOM)
22	DWA:OFF	Dual Picture mode (OFF)
23	DWA:OVL1	Advanced PIP mode (1) (see page 19)
24	DWA:OVL2	Advanced PIP mode (2) (see page 19)
25	DWA:OVL3	Advanced PIP mode (3) (see page 19)
26	DWA:OVL4	Advanced PIP mode (4) (see page 19)
27	DWA:OVL5	Advanced PIP mode (5) (see page 19)
28 29	DWA:OVL6 DWA:OVLOF	Advanced PIP mode (6) (see page 19)
30	DWA:OVLOP	Advanced PIP mode (OFF) (normal two screen display mode) Advanced PIP mode (ON)
31	DWA:PIN0	The location of the sub picture (lower right)
32	DWA:PIN1	The location of the sub picture (lower light) The location of the sub picture (lower left)
33	DWA:PIN2	The location of the sub picture (lower left) The location of the sub picture (upper left)
34	DWA:PIN3	The location of the sub picture (upper right)
35	DWA:PIP	Dual Picture mode (Picture in Picture)
36	DWA:POP	Dual Picture mode (Picture out Picture)
37	DWA:SWP	Swap main picture and sub picture when PIP mode
38	DWA:TWN	Dual Picture mode (Picture and Picture)
39	IMS:PC1	Input select (PC1) (Main Picture when PIP mode)
40	IMS:SL1	Input select (SLOT1) (Main Picture when PIP mode)
41	IMS:SL1A	Input select (SLOT1A) (Main Picture when PIP mode)
42	IMS:SL1B	Input select (SLOT1B) (Main Picture when PIP mode)
43	IMS:SL2	Input select (SLOT2) (Main Picture when PIP mode)
44	IMS:SL2A	Input select (SLOT2A) (Main Picture when PIP mode)
45	IMS:SL2B	Input select (SLOT2B) (Main Picture when PIP mode)
46	IMS:SL3	Input select (SLOT3) (Main Picture when PIP mode)
47	ISS:PC1	Sub Picture Input Select (PC1)
48	ISS:SL1	Sub Picture Input Select (SLOT1)
49	ISS:SL1A	Sub Picture Input Select (SLOT1A)
50	ISS:SL1B	Sub Picture Input Select (SLOT1B)
51	ISS:SL2	Sub Picture Input Select (SLOT2)
52 53	ISS:SL2A	Sub Picture Input Select (SLOT2A) Sub Picture Input Select (SLOT2B)
53 54	ISS:SL2B ISS:SL3	Sub Picture Input Select (SLOT2B) Sub Picture Input Select (SLOT3)
55	OSP:SCR0	Screen Saver SCROLLING BAR ONLY (OFF)
56	OSP:SCR1	Screen Saver SCROLLING BAR ONLY (ON)
57	POF	Power OFF
58	PON	Power ON
59	SSC:FNC0	Screen Saver function (SCROLLING BAR ONLY)
60	SSC:FNC1	Screen Saver function (NEGATIVE IMAGE)
61	SSC:MOD0	Screen Saver (Mode (OFF))
62	SSC:MOD3	Screen Saver (Mode (ON))
63	VMT:0*	Picture Mute (OFF)
64	VMT:1*	Picture Mute (ON)

^{*} Picture Mute cannot be unlocked by powering off/on with the remote control. Turn off and on again with the button on the unit or enter the command VMT:0 to unlock Picture Mute.

Specifications

		TH-42PF11UK	TH-50PF11UK		
Power Source		110 - 127 V AC, 50/60 Hz			
Pov	ver Consumption				
	Power on	525 W	605 W		
	Stand-by condition	Save OFF 0.9 W, Save ON 0.5 W	Save OFF 0.9 W, Save ON 0.5 W		
	Power off condition	0.1 W	0.1 W		
Pla	sma Display panel	Drive method : AC type 42-inch, 16:9 aspect ratio	Drive method : AC type 50-inch, 16:9 aspect ratio		
Scr	een size	36.2" (922 mm) (W) × 20.4" (518 mm) (H) × 41.6" (1,057 mm) (diagonal)	43.5" (1,106 mm) (W) × 24.4" (622 mm) (H) × 49.9" (1,269 mm) (diagonal)		
	(No.of pixels)	I -	(W) × 1,080 (H)) ,080 dots]		
Ope	erating condition				
	Temperature	32 °F - 104 °F	(0 °C - 40 °C)		
	Humidity	20 % -	- 80 %		
App	olicable signals				
	Scanning format	525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 750 (7. · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i	20) / 60p · 50p, 1125 (1080) / 60i · 60p · 50i · 50p		
	PC signals	VGA, SVGA,	XGA, SXGA		
	-	UXGA ···· (compressed)			
		1	requency 15 - 110 kHz		
		Vertical scanning frequency 48 - 120 Hz			
Cor	nnection terminals				
	HDMI A-B		nnector × 2		
	COMPONENT/RGB IN	Y/G (BNC)	with sync 1.0 Vp-p (75 Ω)		
		P _B /B (BNC), P _R /R (BNC)	0.7 Vp-p (75 Ω)		
		AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms		
	PC IN	(HIGH-DENSITY MINI D-SUB 15PIN)	Y or G with sync 1.0 Vp-p (75 Ω)		
			Y or G without sync 0.7 Vp-p (75 Ω)		
			0.7 Vp-p (75 Ω)		
			0.7 Vp-p (75 Ω)		
			1.0 - 5.0 Vp-p (high impedance)		
		AUDIO IN (M3 JACK)	0.5 Vrms		
	SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN	,		
SPEAKERS		6 Ω, 16 W [8 W + 8 W] (10 % THD)			
Acc	essories Supplied				
	Remote Control Transmitter	EUR7636070R			
	Batteries AA Size × 2 Fixing band TMME203 × 1				
Fixing band					
	nensions (W × H × D)	40.2" (1,020 mm) × 24.1" (610 mm) × 3.9" (99 mm)	47.7" (1,210 mm) × 28.5" (724 mm) × 3.8" (95 mm)		
Mas	ss (weight)				
	main unit only	approx. 64.0 lbs	approx. 79.4 lbs		
	with speakers	approx. 72.8 lbs	approx. 88.2 lbs		

Note:

Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.

		TH-58PF11UK	TH-65PF11UK			
Power Source		110 - 127 V AC, 50/60 Hz				
Po	wer Consumption					
	Power on	700 W	755 W			
	Stand-by condition	Save OFF 1.0 W, Save ON 0.5 W	Save OFF 1.0 W, Save ON 0.5 W			
	Power off condition	0.2 W	0.2 W			
Pla	sma Display panel	Drive method : AC type 58-inch,	Drive method : AC type 65-inch,			
		16:9 aspect ratio	16:9 aspect ratio			
Sci	reen size	50.5" (1,284 mm) (W) × 28.4" (723 mm) (H)	56.4" (1,434 mm) (W) × 31.7" (807 mm) (H)			
		× 58.0" (1,474 mm) (diagonal)	× 64.7" (1,646 mm) (diagonal)			
	(No.of pixels)	2,073,600 (1,920	(W) × 1,080 (H))			
		[5,760 × 1	,080 dots]			
Op	erating condition					
	Temperature	32 °F - 104 °F	(0 °C - 40 °C)			
	Humidity	20 %	- 80 %			
Ар	plicable signals					
	Scanning format	525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 750 (7	20) / 60p · 50p, 1125 (1080) / 60i · 60p · 50i · 50p			
		· 24p · 25p · 30p · 24sF, 1250 (1080) / 50i				
	PC signals	VGA, SVGA	, XGA, SXGA			
		UXGA ···· (compressed)				
		Horizontal scanning fi	requency 15 - 110 kHz			
		Vertical scanning frequency 48 - 120 Hz				
Со	nnection terminals					
	HDMI A-B	TYPE A Co	nnector × 2			
	COMPONENT/RGB IN	Y/G (BNC)	with sync 1.0 Vp-p (75 Ω)			
		P _B /B (BNC), P _R /R (BNC)	0.7 Vp-p (75 Ω)			
		AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms			
	PC IN	(HIGH-DENSITY MINI D-SUB 15PIN)	Y or G with sync 1.0 Vp-p (75 Ω)			
			Y or G without sync 0.7 Vp-p (75 Ω)			
		B/P _B /C _B :	0.7 Vp-p (75 Ω)			
			0.7 Vp-p (75 Ω)			
		HD/VD:	1.0 - 5.0 Vp-p (high impedance)			
		AUDIO IN (M3 JACK)	0.5 Vrms			
	SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN) RS-232C COMPATIBLE			
	SPEAKERS	6 Ω, 16 W [8 W + 8 W] (10 % THD)	8 Ω, 20 W [10 W + 10 W] (10 % THD)			
Ac	cessories Supplied					
	Remote Control Transmitter	EUR7636070R				
Batteries		AA Size × 2				
Fixing band		TMME203 × 1				
Dimensions (W × H × D)		55.1" (1,399 mm) × 33.2" (843 mm) × 3.9" (99 mm)	61.2" (1,554 mm) × 36.5" (925 mm) × 3.9" (99 mm)			
Ma	ss (weight)					
	main unit only	approx. 120.2 lbs	approx. 150.0 lbs			
	with speakers	approx. 131.2 lbs	approx. 163.2 lbs			

Note:

Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.

(for the U.S.A and Puerto Rico)

Panasonic Professional Display Company Unit of Panasonic Corporation of North America One Panasonic Way 1F-10 Secaucus, NJ 07094

Panasonic Professional Flat Panel Display Limited Warranty

Panasonic Professional Display Company. (referred to as "the Warrantor") will repair this product and all included accessories with new or refurbished parts, free of charge in the USA or Puerto Rico, of the original purchase in the event of a defect in materials or workmanship as follows:

Models or Parts	Part Warranty	Labor Warranty
Professional Flat Panel Display	2 Years	2 Years

On-site or carry-in service in the **USA** and **Puerto Rico** may be obtained during the warranty period by contacting Panasonic Professional Display Company Service toll free at 1-800-973-4390.

This warranty is extended only to the original purchaser and is non transferable. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in materials or workmanship, which occur during normal use. The warranty does not cover damage which occur in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from improper installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lighting damage, or service by anyone other than an authorized repair facility, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITION, DAMAGE TO DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may nor apply to you. This warranty gives you specific legal rights and you may other rights, which vary from state to state.

If you have a problem with this product that is not handled to your satisfaction, then write the Consumer Affairs Department at the Company address indicated above.

In the USA and Puerto Rico FOR SERVICE CALL TOLL FREE 1-800-973-4390

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

LIMITED WARRANTY STATEMENT

Panasonic Canada Inc. (also known as PCI) warrants this product to be free of defects in material and workmanship under normal use during the applicable warranty coverage period described below. PCI agrees to repair, or at its option, exchange, any part that becomes defective. However, the product must be purchased and serviced in Canada. The product or part that shows evidence of defect must be delivered prepaid or carried in to an authorized Panasonic Broadcast Service Center. This warranty does not cover shipping costs.

The warranty coverage period is one year for both parts and labour beginning with the date of original end user purchase, subject to the exceptions as stated below. Repaired or replacement parts supplied during the warranty coverage period carry the unexpired portion of the original warranty coverage period. Proof of product purchase is a condition of warranty service. The owner must produce the product purchase receipt or other satisfactory evidence of date of original purchase.

This warranty does not apply to external appearance items, such as handles, knobs, safety windows, etc. This warranty does not apply to any part, or parts, of the product, installed, altered, repaired or misused in any way that, in the opinion of PCI, affects the reliability of or detracts from the performance of the product.

For products requiring routine preventive maintenance, that maintenance must be performed in order to maintain warranty coverage.

Serial numbers that have been altered, defaced or removed void this warranty. This warranty does not cover replacements or repairs necessitated by loss or damage resulting from any cause beyond the control of PCI.

Marking or retained images (sometimes called "burn-in") resulting from the display of fixed images on video display products are not defects and are not covered under

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

WARRANTY COVERAGE PERIOD EXCEPTIONS

Item	Parts	Labour
Video Tape	30 days—Replacement only (content not covered)	N/A
P2/SD Cards	(Content not covered)	N/A
Video Heads	1 year or 2,000 hrs. (prorated) Whichever comes first	1 year or 2,000 hrs. Whichever comes first
D5 Video heads	1 year or 1,000 hrs. Whichever comes first	1 year or 1,000 hrs. Whichever comes first
Maintenance Items	90 days	90 days
Colour Camera CCD Imaging Block	2 years	1 year
BT-H Series LCD Monitors	2 years	1 year
* DLP™ Projectors	3 years or 17,000 hrs. Whichever comes first	3 years or 17,000 hrs. Whichever comes first
* LCD Projectors above 2,500 ANSI Lumens	3 years or 2,500 hrs. Whichever comes first	3 years or 2,500 hrs. Whichever comes first.
* LCD Projectors below 2,500 ANSI Lumens	3 years or 1,500 hrs. Whichever comes first	3 years or 1,500 hrs. Whichever comes first
Projector Lamps	50% of the rated lamp life or 1 year. Whichever comes first	50% of the rated lamp life or 1 year Whichever comes first.
103 inch Plasma displays	3 year (burn-in not covered)	3 year
Hard Drive Disk Unit	1 year plus balance (if any) of the original Manufacturer's Limited Warranty.	1 year

Dust, smoke, rental/staging environment and twenty-four/seven operation, dramatically decreases the interval between performances of routine preventive maintenance required to maintain this warranty coverage.

(Content not covered)

Warranty Service

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warranty Service
If the product needs to be shipped for service, carefully pack (preferably in the original carton) and enclose a letter, detailing the complaint. Send prepaid and adequately insured to the local authorized Panasonic Service Centre in your area or to Panasonic Technical Support and Product Services Department, 5770 Ambler Drive, Mississauga, Ontario, L4W 2T3. Shipping to the latter location requires a return authorization before shipment. No liability is assumed for loss or damage to the product while in transit.

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Customer Service

Customer Service Directory

Obtain information products and operative assistant; localize the closer distributor or Service Center; buy spare parts and accessories by our web site to Latin American:

http://www.lar.panasonic.com

Also you may contact us directly by our Contact Center:

Panama 800-PANA (800-7262)

Colombia 1-8000-94PANA (1-8000-947262) - National Line

635-PANA (635-7262) - Bogota Line

Ecuador 1800-PANASONIC (1800-726276)
Costa Rica 800-PANA737 (800-7262737)

El Salvador 800-PANA (800-7262)

Guatemala 1-801-811-PANA (1-801-811-7262)

Chile 800-260602

From a cell phone: 245-2520

Venezuela 800-PANA-800 (800-7262-800)

Uruguay 0-800-PANA (0800-7262)

Mexico Service

To obtain information in the Republic of Mexico contact us at:

email: atencion.clientes@mx.panasonic.com

Or you may contact us in the next following phones numbers:

01800-VIP-PANA (01800-847-7262) - Interior

(55) 5000-1200 - Mexico D.F. and Metropolitan Area

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The model number and serial number of this product can be found on its back cover. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number	Serial Number

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Panasonic Professional Display Company

Unit of Panasonic Corporation of North America

Executive Office:

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Central Region: 1707 N Randall Road E1-C-1, Elgin, IL 60123 (847)468-5200

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Dallas Region: 6226 Abington Way, Houston, TX 77008 (713) 802-2726

No. CA/Northwest Region: 5870 Stone Ridge, #3, Pleasanton, CA (925) 416-5108

Government Marketing Department: 52 West Gude Drive, Rockville, MD 20850 (301) 738-3840

Panasonic Canada Inc.

5770 Ambler Drive Mississauga, Ontario L4W 2T3